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Introduction

This catalogue displays the available work of the Assessment and Planning Division, which adds to and replaces the Resource Analysis Branch Catalogue (1978 edition). The Assessment and Planning Division is comprised of the Planning Branch, Assessment Branch, Terrestrial Studies Branch, Aquatic Studies Branch and Air Studies Branch. The functions of these branches include work done by the former Resource Analysis Branch, the former Environmental Studies Division of the Water Investigations Branch and the former Air Section of the Pollution Control Branch.

The Assessment and Planning Division has been formed to collect and interpret environmental data, assess the impact of development on the environment, and develop long-term planning to meet environmental protection needs. The Division has a staff of scientists, engineers, planners, economists, statisticians and technicians, having a variety of special skills, as well as technical, laboratory, computer and clerical support personnel.

The findings of the Division are reported on computer files, on maps and in reports. The Map Library stores and distributes maps and reports arising from Division projects. It currently holds approximately 5,000 maps and 3,500 books, reports and other related materials. The majority of our maps are in MANUSCRIPT form which allows them to be easily reproduced as black and white prints. Some are PUBLISHED or lithographed in full colour. Wherever published maps are indicated, manuscript maps are also available, though often at a different scale. The Map Library can advise you about detail and scale.

The index maps in the first section of this catalogue indicate availability of maps and reports by discipline (theme). The second section has been designed to show what information is available in each Ministry of Environment Region, first listing detailed and small scale mapping projects, then a complete listing of reports.

Copies of our maps and reports are available from the Map Library. We do not allow original or reference material to leave the premises but you may use our reading room. Throughout the Catalogue reference material is *asterisked* to distinguish it from multiple copy material. There is a current program to produce reproducible microfilm of our maps and reports with emphasis on out-of-print data.

We would like to encourage you to visit our Map Library at 765 Broughton Street in VICTORIA; we have an abundance of interesting reference materials that, for reasons of space, cannot be advertised in this catalogue. You may also make inquiries by phoning (604) 387-6995. We are open daily from Monday to Friday from 8:30 to 4:00.

Karen L. Gorse

Karen Gorse.
Map Librarian.

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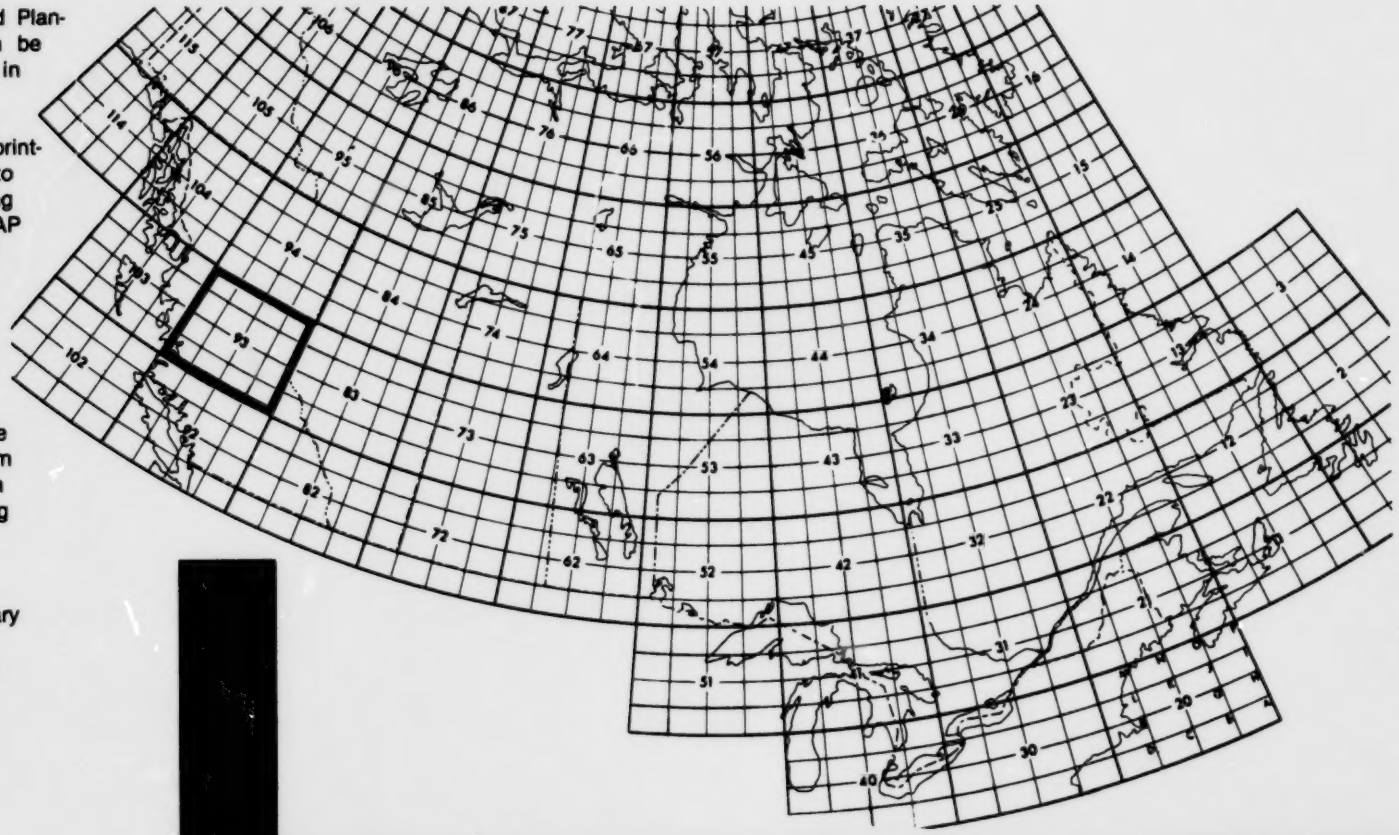
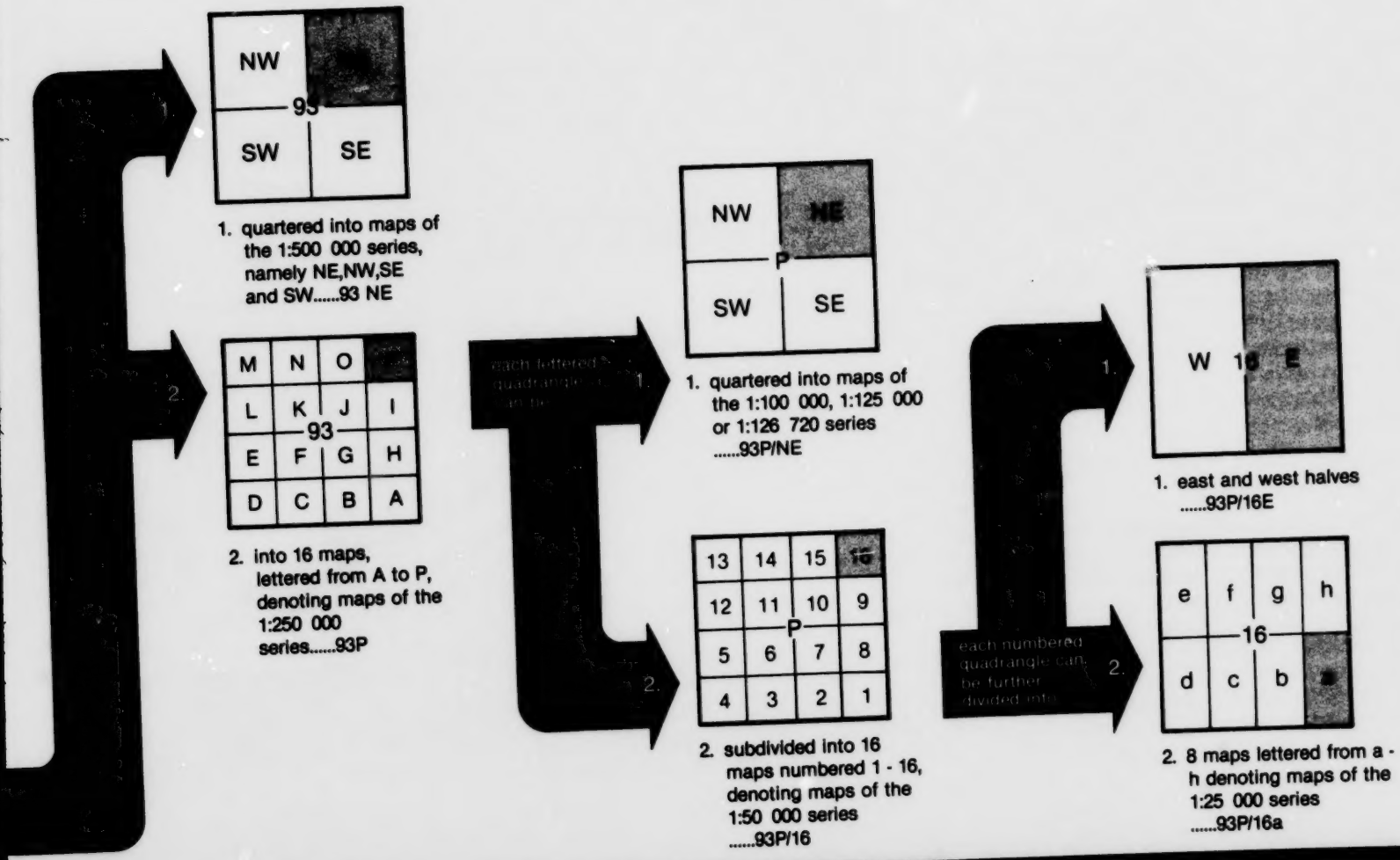
Orders for Assessment and Planning Division material can be placed by mail, phone, or in person. Distribution is by date of receipt of the order. Where there is a charge for printing you will be notified **prior** to the printing. When ordering maps, state THEME and MAP NUMBER as well as number of copies of each. Order forms are provided in the back of this catalogue.

The Division maps its' thematic information on base maps gridded using the National Topographic System (NTS). The following diagram can help you in your ordering of our maps.

The whole of Canada is divided into numbered primary map quadrangles, each 4° latitude by 8° longitude. For example, a primary quadrangle in British Columbia is 93.....



Each primary quadrangle can be subdivided 2 ways



National Topographic System of Mapping

The aquatic inventory is a stream sampling procedure which produces information on fisheries biology and stream morphology. These components include physical channel and valley characteristics, bed materials, aquatic and bank vegetation, hydraulics and fish species presence and life history.

Watershed boundaries are mapped. Stream reaches are depicted and described as well as site features at specific locations on the stream. Four types of lake information is also summarized on the map. These maps can be used to provide interpretations such as fisheries capabilities or hydrologic hazards to urban suitability.

STANDARD DATA COLLECTION FORMS are used by Division personnel, resource agencies, consultants and universities. These are field forms and their use requires consultation with a member of the Aquatic Studies Branch. The Division maintains a complete computerized data base containing physical and biological characteristics for the mapped stream systems. The Map Library staff can put you in touch with the appropriate people for ordering cards and computerized data sets.

REPORTS

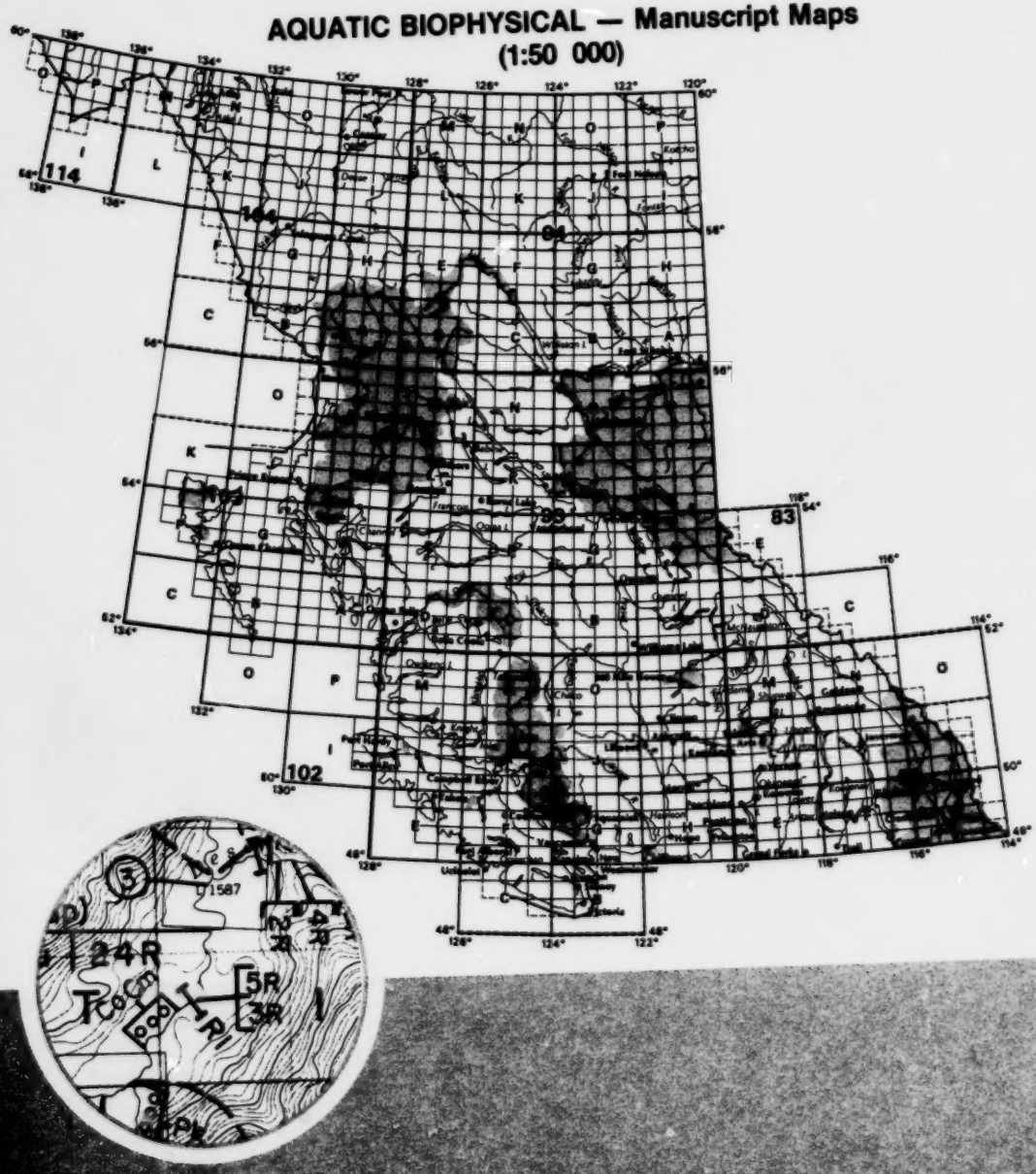
AQUATIC SYSTEM: INVENTORY AND ANALYSIS *by the Resource Analysis Branch, 1977.*

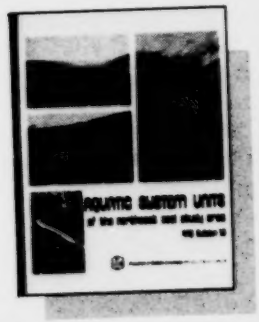
an interim methodology manual for aquatic system mapping.

A HIERARCHICAL WATERSHED CODING SYSTEM FOR BRITISH COLUMBIA, RAB Technical Paper 3 *by W.P. Shera and D.J. Grant, 1980.*

the methodology of a coding system created to store and retrieve information for stream channels and their tributaries.

AQUATIC BIOPHYSICAL — Manuscript Maps
(1:50 000)





AQUATIC SYSTEM UNITS OF THE NORTHEAST COAL STUDY AREA, RAB Bulletin 10 *by E.A. Harding, 1979.*

a summary report of aquatic data compiled in the Northeast Coal Block considering the management of the fisheries in the area.

AQUATIC INVENTORY AND ANALYSIS IN THE VICINITY OF THE PROPOSED TUMBLER RIDGE TOWNSITE, RAB Bulletin 17 *by M.J. Miles and E.A. Harding, 1980.*

a study of the morphologic and physical characteristics, projection of potential flooding hazard, and investigation of the fish presence and distribution at the junction of the Murray River with Bullmoose and Flatbed Creeks.

Aquatics

FISHERIES INVENTORY — Coverage

Lake and Stream Inventory

Fisheries inventory was initiated in 1948. At first, only lakes were surveyed with the incidental reporting of streams.

Lake reports include: location; a bathymetric map; area-volume measurements; water chemistry; temperatures; fish species and composition; access information; present use; and other site specific information.

Stream assessment evolved during the late 1960's. During its development, varying methodologies were tried and are reflected in changing report formats. Stream inventory now incorporates the aquatic methodology developed by the Resource Analysis Branch (1977), but with important differences reflecting that the primary users are fisheries managers and habitat protection biologists. Fish sampling is intensive and report format incorporates illustrations and interpretations specific to fisheries resources. Because the reports and maps are not easily reproducible, they are available for reference only at the Map Libra[illegible]

Other copies can be viewed at:

The Institute of Animal Resource Ecology, Hut B8, University of British Columbia; and

The Regional Fish and Wildlife Branch offices.

Studies have been conducted to assess the quality of several watersheds or their components, including lakes, rivers and estuaries. As part of these studies, several kinds of data may be collected, such as water chemistry measurements, characterization of effluent discharges of several types, descriptions of kinds and numbers of flora and fauna, classification of sediments and surrounding soils, measurements of contaminants in biota and sediments, and some information on local land use, hydrology and floods. The quality of a particular body of water is related to standards established for various water uses.

Conclusions regarding the condition of the water resource; recommendations for its management, protection, maintenance, rehabilitation and/or use; and long term plans for its use and protection are made. Some reports include explanations of sampling methods.

REPORTS

COMOX HARBOUR PROVINCIAL INTERAGENCY PROGRAM 3, TASKS 1 and 2: OCEANOGRAPHY AND WATER QUALITY *by R.W. Drinnan and I. Webster, 1974.*

COMOX HARBOUR PROVINCIAL INTERAGENCY PROGRAM 3, TASK 3: INTERTIDAL BEACH BIOLOGY *by R.W. Drinnan, 1974.*

CONTRIBUTION TO THOMPSON RIVER BASIN PRE-PLANNING STUDY. WATER QUALITY *by the Water Investigations Branch, 1980.*

FRASER RIVER ESTUARY STUDY. WATER QUALITY reports (see "b" on the map) include:

ACUTE TOXICITY OF EFFLUENTS (in preparation) *by H.J. Singleton.*

AQUATIC BIOTA AND SEDIMENTS (in preparation) *by D.E. Stancil.*

DRY WEATHER STORM SEWER DISCHARGES (in preparation) *by the Aquatic Studies Branch.*

INDUSTRIAL EFFLUENTS (in preparation) *by L.G. Swain.*

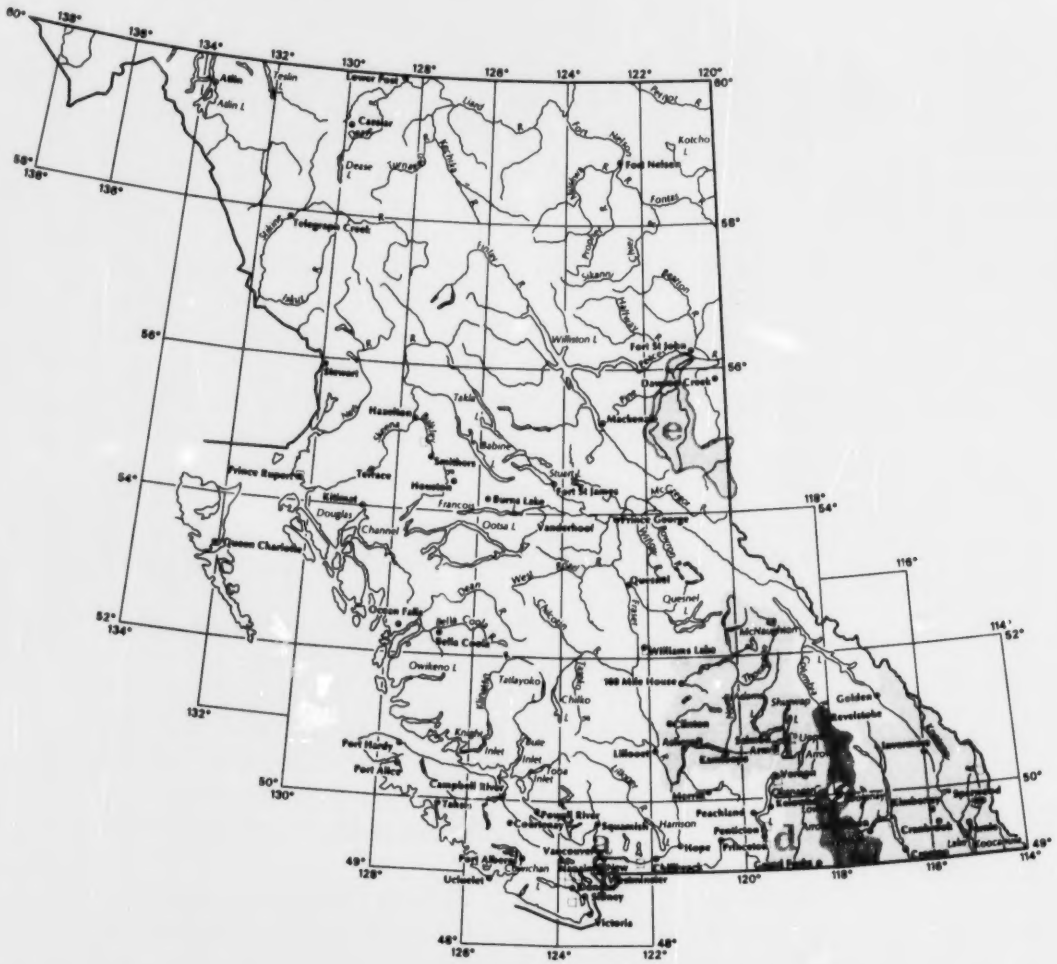
INTERIM REPORT *of the Water Quality Work Group, 1978.*

MUNICIPAL EFFLUENTS (in Preparation) *by R.J. Cain.*

SITE REGISTRY OF STORM WATER OUTFALLS *by P.K. Krahn, K.W. Hui and J.R. Walker, 1980.*

TRACE ORGANIC CONSTITUENTS IN DISCHARGES *by R.J. Cain, M.J.R. Clark and N.R. Zorkin, 1980.*

WATER CHEMISTRY: 1970-1978 (in preparation) *by R.W. Drinnan and M.J.R. Clark.*



COQUITLAM RIVER WATER MANAGEMENT STUDY *by the Water Investigation Branch, 1978.* (see"a" on key map).

a report assessing the fisheries resource of the river and methods of flood protection, and the conflicts arising from many uses of this river and its tributaries.

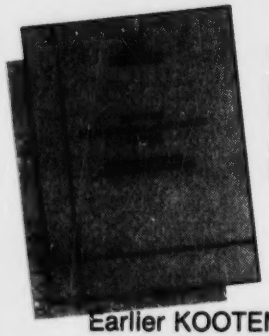
FRASER RIVER ESTUARY STUDY, WATER QUALITY SUMMARY REPORT *of the Water Quality Work Group, 1979.*

a report summarizing the uses of the lower Fraser River and estuary, the quality of these waters and the biota in them, and developing a plan for the management of the water resource of the study area. (other Fraser River Estuary Study reports listed on opposite page).

Water Quality

REPORTS (Continued)

KALAMALKA-WOOD LAKE BASIN WATER RESOURCE MANAGEMENT STUDY *by L.A. Bergman, 1980.*



KOOTENAY AIR & WATER QUALITY STUDY PHASE II, WATER QUALITY IN THE LOWER COLUMBIA RIVER BASIN *by the Water Investigations Branch, 1980* (see area "c" of key map)

a report assessing the quality of the water resource and the effects of particular impacts on the resource.

Earlier KOOTENAY AIR AND WATER QUALITY STUDY reports by the Water Investigations Branch include:

PHASE I:

- **WATER QUALITY IN REGION 1, THE FLATHEAD RIVER BASIN,** *1976.*
- **WATER QUALITY IN REGION 2, THE ELK RIVER BASIN,** *1976.*
- **WATER QUALITY IN REGION 3, THE UPPER KOOTENAY RIVER BASIN,** *1976.*
- **WATER QUALITY IN REGION 4, THE LOWER KOOTENAY RIVER BASIN,** *1976.*
- **WATER QUALITY IN REGION 5, THE KOOTENAY LAKE BASIN,** *1976.*
- **WATER QUALITY IN REGION 6, THE SLOCAN RIVER BASIN,** *1977.*
- **WATER QUALITY IN REGION 7, THE UPPER COLUMBIA RIVER BASIN,** *1976.*
- **WATER QUALITY IN REGION 8, THE LOWER COLUMBIA RIVER BASIN,** *1977.*
- **WATER QUALITY IN REGION 9, THE KETTLE RIVER BASIN,** *1977.*

PHASE II:

- **WATER QUALITY IN THE ELK AND FLATHEAD RIVER BASINS,** *1978.*

LIMNOLOGY AND WATER QUALITY OF SHAWNIGAN LAKE (in preparation) *by R.N. Nordin.*

PRINCE RUPERT HARBOUR PROVINCIAL AGENCY PROGRAM 3, TASKS 1 and 2: OCEANOGRAPHY AND WATER QUALITY *by R.W. Drinnan and I. Webster, 1974.*

PRINCE RUPERT HARBOUR PROVINCIAL AGENCY PROGRAM, TASK 3: INTERTIDAL BEACH BIOLOGY *by R.W. Drinnan, 1974.*

REPORT ON THE FEDERAL-PROVINCIAL STUDY OF THE THOMPSON RIVER *by J. Olan, 1975.*

RESPONSE OF KOOTENAY LAKE TO CHANGES IN NUTRIENT LOADING AND IMPOUNDMENT OF KOOCANUSA RESERVOIR (in preparation) *by R.N. Nordin and R.J. Crozier.*

SERPENTINE-NIKOMEKL STUDIES AND PROJECTS *by L.A. Bergman, 1980.*

SQUAMISH RIVER ESTUARY MANAGEMENT STUDY. INTERIM REPORT *by the Air and Water Quality Work Group, 1980.*

REPORTS (Continued)

SQUAMISH RIVER ESTUARY MANAGEMENT STUDY. FINAL REPORT (in preparation) *by the Air and Water Quality Work Group.*

Other studies focus on one or two aspects of water quality:

A BRIEF REVIEW OF THE WATER QUALITY OF HATZIC LAKE WITH RESPECT TO FUTURE LAND USE PLANNING *by R.W. Drinnan, 1975.*

AN INEXPENSIVE *IN SITU* ALGAL BIOASSAY PROCEDURE WITH SOME PRELIMINARY RESULTS BEARING ON NUTRIENT LIMITATIONS IN SKAHA LAKE *by R. Nordin, 1978.* (see "d" on key map) a report outlining a method for assessment of lake eutrophy.

A PRELIMINARY REPORT ON THE BENTHIC INVERTEBRATES OF THE NAHMINT RIVER ESTUARY *by P.G. Lim, 1975.*

CHEMICAL AND PHYSICAL RESULTS FOR THE THOMPSON RIVER SYSTEM, Interim Report on the Federal-Provincial Study *by J. Olan, 1974.*

CONTINUATION OF THE NARAMATA WATER QUALITY STUDY *by J.J. Feddes, 1976.*

DATA REPORT FOR THE WATER QUALITY MONITORING PROGRAM, CUSHEON LAKE, B.C. *by J. Goddard, 1975.*

DATA REPORT FOR THE WATER QUALITY MONITORING PROGRAM, JUNE 1974 to JUNE 1975 (ST. MARY LAKE, B.C.) *by J. Goddard, 1975.*

DATA REPORT FOR THE WATER QUALITY MONITORING PROGRAM, LAKE WESTON, B.C. JUNE 1974 to JUNE 1975 *by J. Goddard, 1975.*

DISSOLVED OXYGEN SUPPLY IN THE LOWER FRASER RIVER (in preparation) *by W. Bergrud.*

ENGINEERING FEASIBILITY OF CLEANING OUT RESERVOIR ON COLDSTREAM CREEK *by L.A. Bergman, 1980.* (see"f" on key map) a report discussing a measure to assist in the maintenance of the quality of Kalamalka Lake.

ENGINEERING FEASIBILITY OF DRAINING DOWN KATHLYN LAKE *by L.A. Bergman, 1980.*

INTERIM REPORT OF THE LAKE MONITORING PROGRAM (ACID RAIN BASE- LINE DATA PROJECT) *by J. Goddard, 1978.*

OBSERVATIONS ON THE WATER QUALITY IN THE CHAIN-LINK-OSPREY LAKES SYSTEM 1973-1976. PARTS 1 AND 2 *by J. Goddard, 1977.*

OBSERVATIONS ON THE WATER QUALITY IN THE CHAIN-LINK-OSPREY LAKES SYSTEM 1973-1976, PART 3: WATER QUALITY FOR OSPREY LAKE *by J. Goddard, 1978.*

OBSERVATIONS ON THE WATER QUALITY OF WILLIAMS LAKE. DATA REPORT FOR THE PERIOD 1974-1976 *by J. Goddard, 1977.*

Water Quality
CONTINUED

REPORTS (Continued)

PRELIMINARY ENVIRONMENTAL IMPACT ASSESSMENT: MISSION DRAGSTRIP RELOCATION *by J.C. Arber and J. Wiens, 1979.*

PRELIMINARY INVESTIGATIONS OF SHAWNIGAN LAKE — WATER QUALITY 1976 *by R. Nordin, 1977.*

PRINCE RUPERT PULP MILL MONITORING PROGRAM. SURVEY OF INTER-TIDAL MACROALGAE 1974-1975 *by R.W. Drinnan, 1977.*

PROGRESS REPORT, EXPLOSIVES/WATER QUALITY STUDY AT FORDING COAL LIMITED *by L.W. Pommen and R.N. Nordin, 1979.*

PROVINCIAL FISHERIES RESOURCE. BACKGROUND REPORT TO COQUITLAM RIVER WATER MANAGEMENT STUDY *by J.C. Arber, 1978.*

SALMON ARM TERTIARY TREATMENT ALTERNATIVES. Report 80.5 *by E.R. Haughton, R.N. Nordin and P. Epp, 1980.*

SOME OBSERVATIONS OF THE WATER QUALITY OF TIE LAKE, B.C. *by R.J. Buchanan and J. Goddard, 1976.*

SOURCE AND EFFECTS OF ALGAL GROWTH, COLOUR FOAMING AND FISH TAINTING IN THE THOMPSON RIVER SYSTEM *by the Water Investigations Branch, 1976.*

SUMMARY REPORT. ENVIRONMENTAL IMPACT EVALUATION OF SOLLY CREEK-SILVER LAKE-BANON CREEK ALTERNATIVE FOR NORTH COWICHAN WATER SUPPLY *by L. Regan, 1975.*

REPORTS (Continued)

TASK REPORT — VEGETATION SECTION. ENVIRONMENTAL IMPACT EVALUATION OF SOLLY CREEK-SILVER LAKE-BANON CREEK ALTERNATIVE FOR NORTH COWICHAN WATER SUPPLY *by P. Warrington, 1975.*

TASK REPORT — WATER QUALITY SECTION. ENVIRONMENTAL IMPACT EVALUATION OF SOLLY CREEK-SILVER LAKE-BANON CREEK ALTERNATIVE FOR NORTH COWICHAN WATER SUPPLY *by J.C. Arber, 1975.*

THE WATER QUALITY OF FORD LAKE, BULLOCK LAKE, STOWELL LAKE AND BLACKBURN LAKE (in preparation) *by C.J.P. McKean.*

THE WATER QUALITY OF QUARANTINE LAKE *by C.J.P. McKean, 1979.*

WATER QUALITY AND AQUATIC VEGETATION OF CROFTON LAKE *by J.C. Arber, 1976.*

WATER QUALITY. BACKGROUND REPORT OF COQUITLAM RIVER WATER MANAGEMENT STUDY *by J.M. Goddard and J. Olan, 1977.*

WATER QUALITY IN THE SHUSWAP RIVER BETWEEN MABEL AND MARA LAKES, 1977 *by R. Nordin, 1978.*

WATER QUALITY OF THE NORTHEAST AREA OF BRITISH COLUMBIA. PRELIMINARY REPORT ON 1976 WATER QUALITY MONITORING *by the Water Investigations Branch, 1976.* (see area "e" on key map).

WATER QUALITY OF THE NORTHEAST AREA OF BRITISH COLUMBIA — 1976. PRELIMINARY WATER QUALITY DATA FOR DOMESTIC WATER SUPPLY *by the Water Investigations Branch, 1976.*

WATER QUALITY OF THE NORTHEAST AREA OF BRITISH COLUMBIA — 1977. SURFACE QUALITY DATA FOR THE POTENTIAL DOMESTIC WATER SUPPLY IN "CORE" AREA *by the Water Investigations Branch, 1978.*

WATER QUALITY OF NORTHEAST BRITISH COLUMBIA: VOLUME TWO — DATA APPENDICES TO REPORT ON 1977 WATER QUALITY MONITORING *by the Water Investigations Branch, 1978.*

WATER QUALITY OF THE NORTHEAST AREA OF BRITISH COLUMBIA: 1978 SURFACE WATER QUALITY DATA *by the Water Investigations Branch, 1979.*

Water Quality

CONTINUED

Soil maps provide basic data about the Earth's surface. Soil associations and components are described for the land base giving information on parent material, texture, drainage, and associated soil developments. Topographic classes are also shown.

Soil maps can be used to derive other maps showing soil wetness, depth to bedrock, slope, etc. Land use management interpretations such as erosion hazard, flooding hazards or engineered suitability can also be made.

STANDARD DATA COLLECTION CARDS are used by Division personnel, other soils agencies, and universities. These cards are compatible with the Canadian Soil Information System (CanSIS) used by the federal government and all provinces. The Division maintains a computerized SOIL DATA FILE, containing most of the chemical, physical, and descriptive data for the mapped soils. Cards and data print-outs are available by contacting the Map Library staff.

BIOPHYSICAL SOIL RESOURCES AND LAND EVALUATION OF THE NORTHEAST COAL STUDY AREA 1976-1977 (2 volumes), RAB Bulletin 7 *by T. Vold, R. Hardy and R. Maxwell, 1977.*

GUIDELINES FOR RECONNAISSANCE MAP LEGENDS — A STANDARD LEGEND FORMAT, *Working Report by M. Fenger et al, 1980.*

PROCEEDINGS OF THE WORKSHOP ON ALPINE AND SUBALPINE ENVIRONMENTS, VICTORIA, B.C. APRIL 28, 1976, *by H.A. Luttmerding and J.A. Shields.*

***SOIL CHARACTERISTICS IN RELATION TO SETTLEMENT PLANNING OF THE BLIND BAY-SORRENTO AREA,** *Working Report by H.A. Luttmerding, 1978.*

***SOILS IN THE CARIBOO RIVER VALLEY, B.C. WITH SELECTED ENGINEERING INTERPRETATIONS,** *Working Report by T. Vold, 1980.*

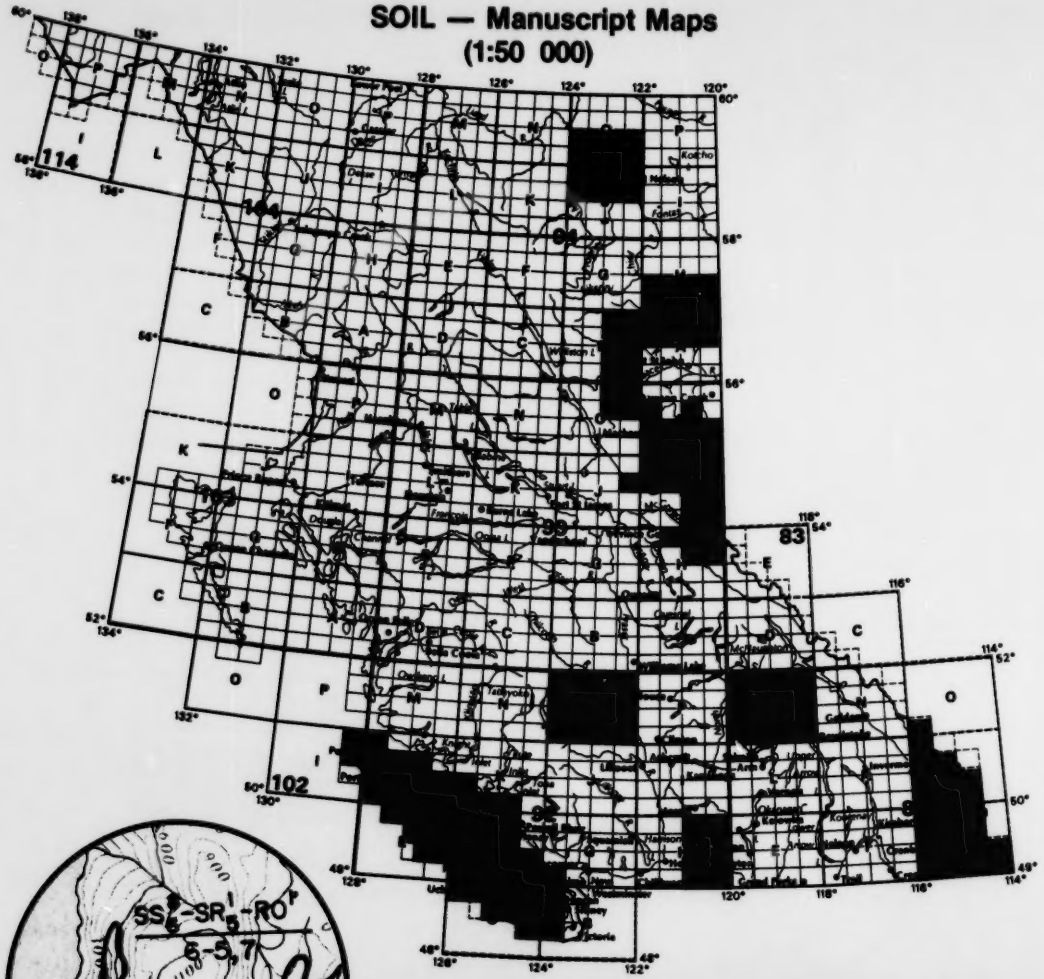
***SOIL SURVEY AND SOIL CAPABILITY FOR AGRICULTURE RATING - BIG BEND AREA, BURNABY** *by R.L. Beale, 1977.*

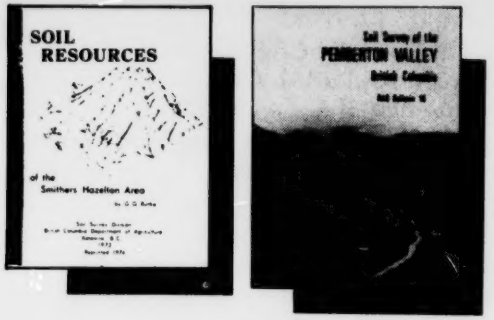
***SOIL SURVEY FOR URBAN SUITABILITY ANALYSIS -TOWN OF GOLDEN, B.C.** *by R.L. Beale and T. Rollerson, 1975.*

***SOIL SURVEY OF SOUTH VANCOUVER AGRICULTURAL LAND RESERVE** *by R.L. Beale, 1976.*

*Reference copy only.

SOIL — Manuscript Maps
(1:50 000)





SOIL SURVEY OF THE PEMBERTON VALLEY, BRITISH COLUMBIA, RAB Bulletin 16
by R.L. Beale-Kuurne, 1980.

a report on the detailed mapping of soils and agriculture capability in the area providing interpretations on specified land uses.

Soil Survey

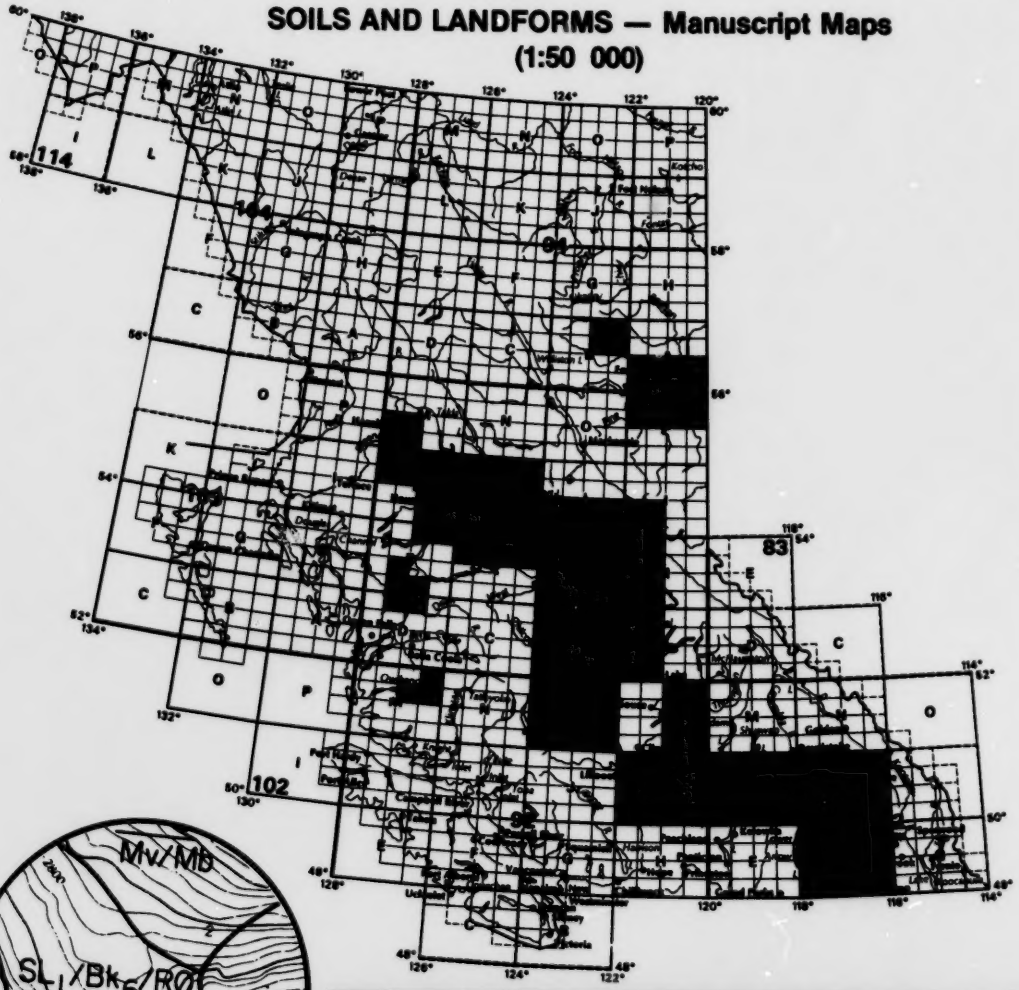
REPORTS (Continued)

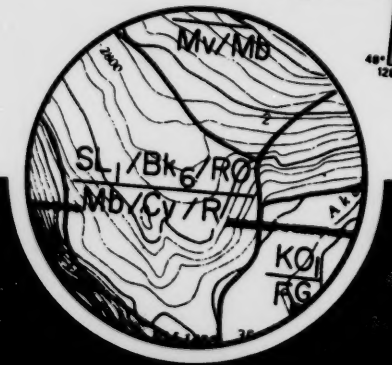
TELEGRAPH CREEK AREA - SOIL AND AGRICULTURAL CAPABILITY *by P.F. . Epp and M.A. Fenger, 1978.*

***THE SOIL LANDSCAPES OF BRITISH COLUMBIA** by K.W.G. Valentine et al, 1978.*

*Reference copy only.

SOILS AND LANDFORMS — Manuscript Maps (1:50 000)





SOIL STUDIES RELATED TO WATER MANAGEMENT

Studies have been conducted to assess the nature and role of watershed soils, and the impact of subsurface sewage disposal systems on lakes. Soils were mapped and interpretations for urban uses made. The quality of waters in soils in relation to septic tank drainfields was monitored and physical and chemical properties of soils measured. Data on land use were combined with soils information to estimate current nutrient loading to Shawinigan Lake. Recommendations relating to regional planning, and management of onsite waste disposal have been made. Assessments of alternative study methods have been carried out.

REPORTS

BACKGROUND REPORT: AN EVALUATION OF THE USE OF CERAMIC CUP SOIL WATER SAMPLERS IN NUTRIENT TRANSPORT RELATED STUDIES, *(in preparation) by N.K. Nagpal.*

BACKGROUND REPORT: USE OF PERCOLATION AND HYDRAULIC CONDUCTIVITY MEASUREMENTS IN DESIGN AND MANAGEMENT OF SOIL WASTE DISPOSAL SYSTEMS, *(in preparation) by N.K. Nagpal.*

PRELIMINARY ENVIRONMENTAL IMPACT ASSESSMENT: MISSION DRAGSTRIP RELOCATION *by J.C. Arber and J. Wiens, 1979.*

SHAWNIGAN LAKE WATERSHED STUDY: INVESTIGATIONS OF SOIL WATER QUALITY BELOW SEPTIC TANK DRAINFIELDS AND NUTRIENT LOADING TO THE LAKE, *(in preparation) by N.K. Nagpal and J.H. Wiens.*

PUBLISHED SOIL MAPS AND REPORTS

SOIL REPORT NUMBER

*1. **SOIL SURVEY OF THE LOWER FRASER VALLEY** *by C.C. Kelley and R.H. Spilsbury, 1939.*

*2. **SOIL SURVEY OF THE PRINCE GEORGE AREA** *by C.C. Kelley and L. Farstad, 1946.*

3. **SOIL SURVEY OF THE OKANAGAN AND SIMILKAMEEN VALLEYS** *by C.C. Kelley and R.H. Spilsbury, 1949.*

4. **SOIL SURVEY OF THE QUESNEL, NECHAKO, FRANCOIS LAKE AND BULKLEY-TERRACE AREAS IN THE CENTRAL INTERIOR OF BRITISH COLUMBIA** *by L. Farstad and D.G. Laird, 1954.*

5. **SOIL SURVEY OF THE UPPER KOOTENAY AND ELK RIVER VALLEYS IN THE EAST KOOTENAY DISTRICT OF BRITISH COLUMBIA** *by C.C. Kelley and P.N. Sprout, 1956.*

*6. **SOIL SURVEY OF SOUTHEAST VANCOUVER ISLAND AND GULF ISLANDS** *by J.H. Day, L. Farstad and D.G. Laird, 1959.*

7. **SOIL SURVEY OF THE UPPER COLUMBIA RIVER IN THE EAST KOOTENAY DISTRICT OF BRITISH COLUMBIA** *by C.C. Kelley and W.D. Holland, 1961.*

*Reference copy only.

SOIL REPORT NUMBER

8. **SOIL SURVEY OF THE PEACE RIVER AREA IN BRITISH COLUMBIA** *by L. Farstad, T.M. Lord, A.J. Green and H.J. Hortie, 1961*

9. **SOIL SURVEY OF THE KETTLE RIVER VALLEY IN THE BOUNDARY DISTRICT OF BRITISH COLUMBIA** *by P.N. Sprout and C.C. Kelley, 1964.*

10. **SOILS OF THE UPPER PART OF THE FRASER VALLEY IN THE ROCKY MOUNTAIN TRENCH OF BRITISH COLUMBIA** *by H.J. Hortie, A.J. Green and T.M. Lord, 1970.*

11. **SOILS OF THE TOFINO-UCLUELET LOWLAND OF BRITISH COLUMBIA** *by K.W.G. Valentine, 1971.*

12. **SOILS OF THE FORT NELSON AREA OF BRITISH COLUMBIA** *by K.W.G. Valentine, 1971.*

13. **SOILS OF THE TULAMEEN AREA OF BRITISH COLUMBIA** *by T.M. Lord and A.J. Green, 1975.*

14. **SOILS OF THE PRINCETON AREA OF BRITISH COLUMBIA** *by A.J. Green and T.M. Lord, 1979.*

SOIL REPORT NUMBER

15. **SOILS OF THE LANGLEY-VANCOUVER MAP AREA, RAB Bulletin 18,** *by H.A. Luttmerding, 1980.*
This report will be published in six separate parts of which Volume 1 is presently available. The remaining five volumes are currently in preparation.
Volume 1 - 1:25 000 soils mapping on mosaics with legend for the settled areas of the Lower Mainland.
Volume 2 - 1:50 000 soils mapping with legend for the southern part of the Sunshine Coast and the North Shore Mountains east to Chehalis Lake.
Volume 3 - descriptions of the soils classified in Volumes 1 and 2.
Volume 4 - specific use interpretations for the soils described in Volume 3.
Volume 5 - contains information regarding agricultural cropping and management of the soils in Volume 3.
Volume 6 - computer printouts from the B.C. Soil Data File of the soils described in Volume 3.

16. **SOIL AND TERRAIN REPORT OF THE SEYMOUR|ARM AREA, RAB Bulletin 19,** (at press) *by R.C. Kowall, 1980.*

SOIL REPORT NUMBER

17. **SOILS OF THE ROSE PRAIRIE-BLUEBERRY RIVER AREA OF BRITISH COLUMBIA** *by T.M. Lord, 1974, MAP ONLY.*

18. **SOILS OF THE HALFWAY RIVER AREA OF BRITISH COLUMBIA** *by T.M. Lord, 1974, MAP ONLY.*

19. **SOILS OF THE BIG ARROW-NIG CREEK AREA OF BRITISH COLUMBIA** *by A.J. Green, 1975, MAP ONLY.*

21. **SOIL RESOURCES OF THE SMITHERS-HAZELTON AREA (INTERIM REPORT)** *by G.G. Runka, 1972, reprinted 1974.*

22. **SOILS OF THE NECHAKO-FRANCOIS LAKE AREA (INTERIM REPORT)** *by I. Cotic, J. van Barneveld and P.N. Sprout, 1974.*

25. **SOILS OF THE LAC LA HACHE-CLINTON AREA** *by K.W.G. Valentine, 1980.*

27. **SOIL RESOURCES OF THE LARDEAU MAP AREA, RAB Bulletin 15** *by U. Wittneben, 1980.*

28. **SOIL RESOURCES OF THE NELSON MAP AREA, RAB Bulletin 20,** (at press) *by J.Jungen, 1980.*

Soil Survey

CONTINUED

PRELIMINARY AND INTERIM SOIL MAPS AND REPORTS.

SOIL REPORT NUMBER

3. **SOIL SURVEY OF SURREY MUNICIPALITY** *by P.N. Sprout and C.C. Kelley, 1961, (#S.M. 109).*

*4. **SOIL SURVEY OF THE CHILLIWACK AREA** *by V.K. Comar, P.N. Sprout and C.C. Kelley, 1962, (#S.M. 89).*

5. **SOIL SURVEY OF SUMAS MUNICIPALITY** *by V.K. Comar and C.C. Kelley, 1962, (#S.M. 90).*

*6. **SOIL SURVEY OF MATSQUI MUNICIPALITY AND SUMAS MOUNTAIN** *by G.G. Runka and C.C. Kelley, 1964, (#S.M. 104).*

7. **SOIL SURVEY OF LANGLEY MUNICIPALITY AND BARNSTON ISLAND** *by H.A. Luttmerding and P.N. Sprout, 1966, (#S.M. 110).*

*Reference copy only.

SOIL REPORT NUMBER

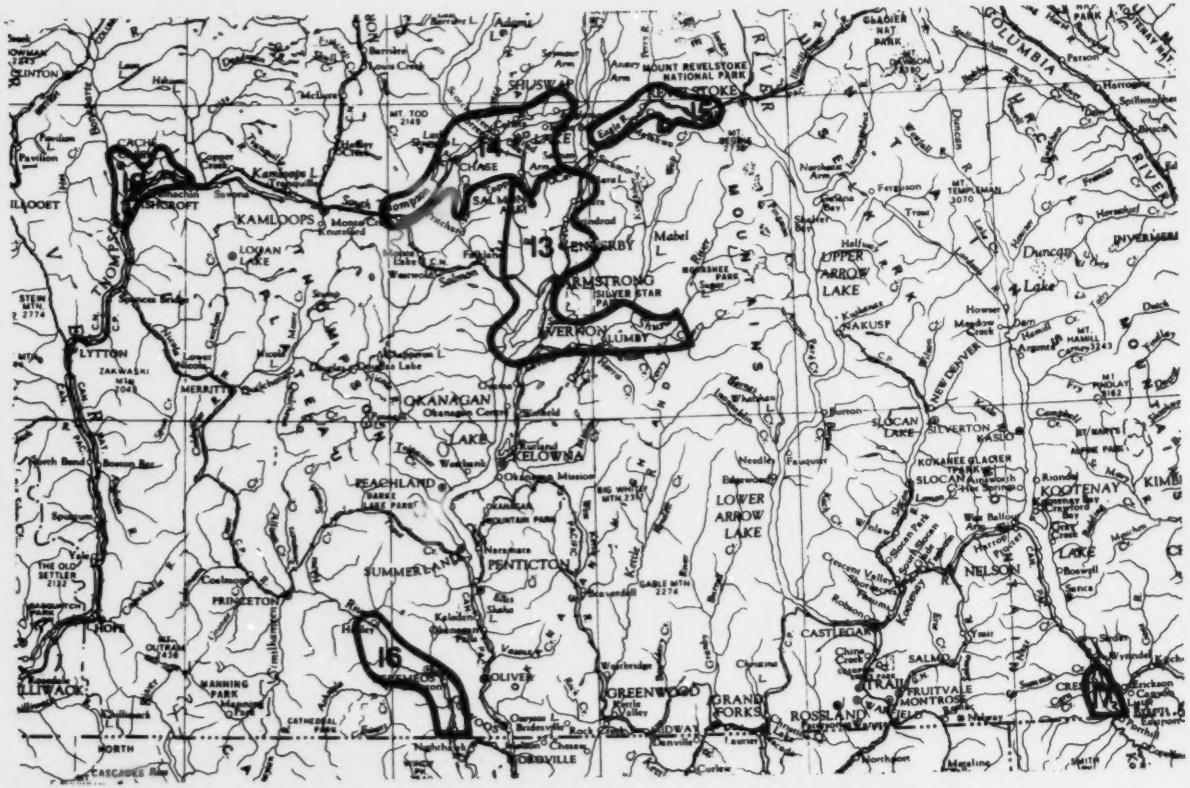
8. **SOIL SURVEY OF AGASSIZ AREA** *by H.A. Luttmerding and P.N. Sprout, 1967, (#S.M. 118).*

*9. **SOIL SURVEY OF MISSION AREA** *by H.A. Luttmerding and P.N. Sprout, 1968, (#S.M. 119A and 119B).*

*10 **SOIL SURVEY OF DELTA AND RICHMOND MUNICIPALITIES** *by H.A. Luttmerding and P.N. Sprout, 1969, (#S.M. 120).*

11. **SOIL SURVEY OF MAPLE RIDGE, PITT MEADOWS, COQUITLAM AREA** *by H.A. Luttmerding, 1972, MAPS ONLY (#S.M. 123A and 123B).*

12. **SOIL SURVEY OF ALTA LAKE AREA** *by H.A. Luttmerding, 1971, (#S.M. 122).*



SOIL REPORT NUMBER

13. **SOIL SURVEY OF THE NORTH OKANAGAN VALLEY** *by P.N. Sprout and C.C. Kelley, 1960, (#S.M. 95, 96, 97 and 98).*

*14. **SOIL SURVEY OF THE SHUSWAP LAKES AREA** *by A.B. Dawson and C.C. Kelley, 1965, (#S.M. 106 and 107).*

*15. **SOIL SURVEY OF THE EAGLE RIVER VALLEY, SICAMOUS TO THREE VALLEY LAKE** *by A.B. Dawson and C.C. Kelley, 1964, (#S.M. 105).*

16. **SOIL SURVEY OF THE SIMILKAMEEN VALLEY, HEDLEY TO 49TH PARALLEL** *by P.N. Sprout and C.C. Kelley, 1961, (#S.M. 92).*

17. **SOIL SURVEY OF THE CRESTON AREA** *by U. Wittneben and P.N. Sprout, 1971, (#S.M. 121).*

*18. **SOIL SURVEY OF THE ASHCROFT-SAVONA AREA, THOMPSON RIVER VALLEY** *by P.N. Sprout and C.C. Kelley, 1963, (#S.M. 93 and 94).*

*Reference copy only.

Soil Survey
CONTINUED

Terrain (or landforms) mapping illustrates the distribution of unconsolidated (genetic) materials; its composition and surface pattern, and any processes which have been or are currently modifying the surficial materials.

Using terrain maps, derivative and interpretative maps such as terrain sensitivity or urban suitability can be made. Information on the availability of these can be provided by contacting the Map Library. Terrain information is also contained on Soils and Landforms maps (see index map on page 18).

REPORTS

TERRAIN CLASSIFICATION SYSTEM *by Resource Analysis Unit, 1976, reprinted 1978.*
a manual describing the classification system used for interpretation of terrain maps.

* **GUIDE TO THE PREPARATION OF A GEOLOGICAL HAZARDS MAP,** *Working report by J.M. Ryder and B. MacLean, 1980.*

* **LANDFORMS AND TERRAIN INTERPRETATIONS IN RELATION TO FOREST MANAGEMENT REGIONS** *by R.C. Kowall, 1974.*

* **MAPPING UNSTABLE TERRAIN IN B.C. - A PRELIMINARY ASSESSMENT** *by D. Howes, 1978.*

* **SLIDE HAZARD AT RUMBLE BEACH** *by A.N. Boydell and N.F. Alley, 1975.*

* **SURFICIAL GEOLOGY OF VANCOUVER ISLAND** *by N.F. Alley, 1975.*

* **TERRAIN ANALYSIS FOR SETTLEMENT SUITABILITY: ELECTORAL AREAS A, B AND C, REGIONAL DISTRICT OF NORTH OKANAGAN,** *Working Report by R.C. Kowall, 1979.*

* **TERRAIN CAPABILITY FOR RESIDENTIAL SETTLEMENT: BACKGROUND REPORT,** *Working Report by D. Maynard, 1979.*

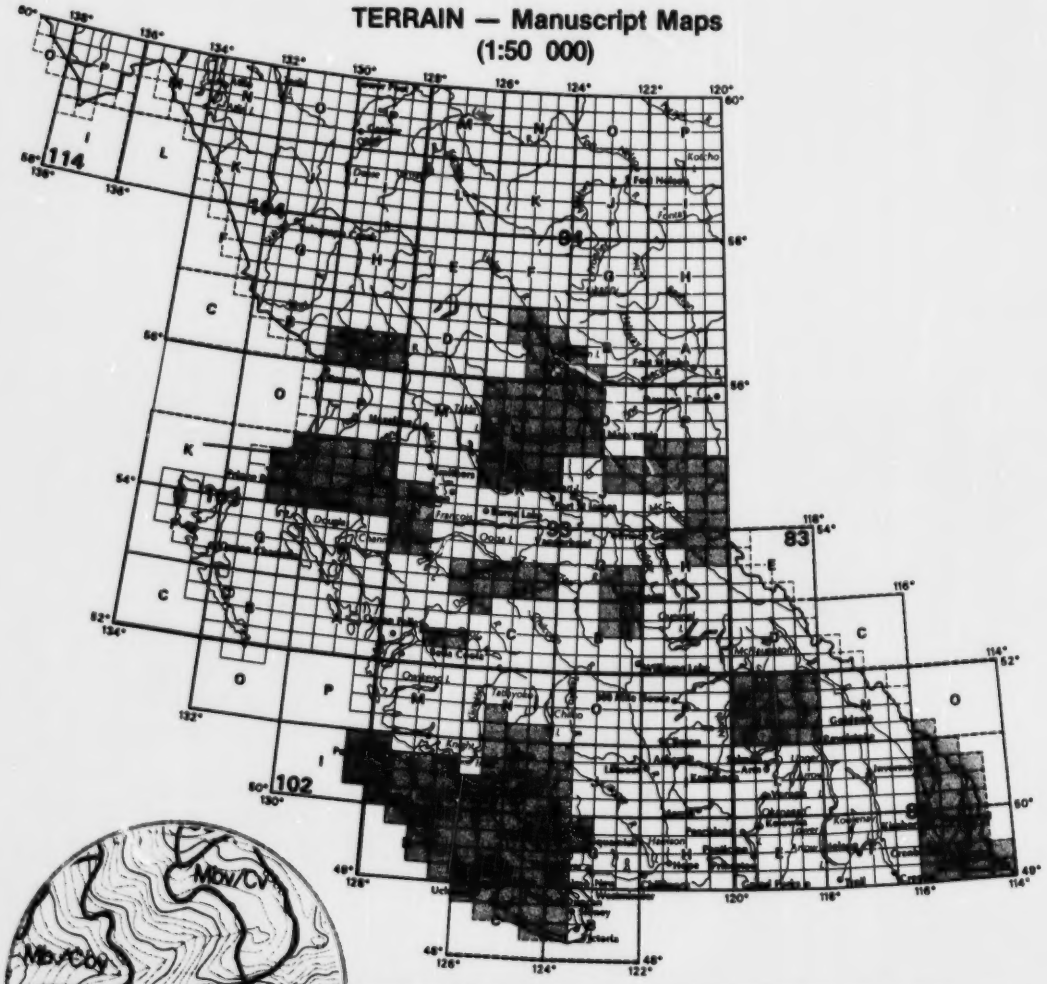
* **TERRAIN CAPABILITY FOR RESIDENTIAL SETTLEMENT: SUMMARY REPORT,** *Working Report by D. Maynard, 1979.*

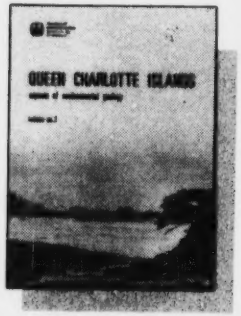
TERRAIN INVENTORY AND LATE PLEISTOCENE HISTORY OF THE SOUTHERN PART OF THE NECHA-KO PLATEAU, RAB Bulletin 1 *by D.E. Howes, 1977.*

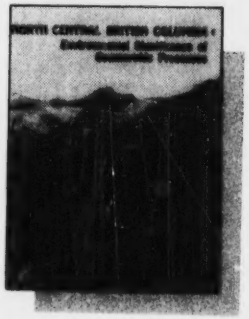
* **TERRAIN INVENTORY AND QUATERNARY GEOLOGY, ASHCROFT, B.C.** *by J.M. Ryder, 1976.*

* **TERRAIN MAPPING AND QUATERNARY GEOLOGY, SOUTHERN VANCOUVER ISLAND** *by N.F. Alley.*

*Reference copy only.







ASPECTS OF ENVIRONMENTAL GEOLOGY, PARTS OF GRAHAM ISLAND, QUEEN CHARLOTTE ISLANDS, RAB Bulletin 2
by N.F. Alley and B. Thomson, 1978.

a report on surficial deposits in two areas of Graham Island investigating the distribution and origin of naturally occurring slope instability.

ENVIRONMENTAL SIGNIFICANCE OF GEOMORPHIC PROCESSES IN THE NORTHERN SKEENA MOUNTAINS AND SOUTHERN STIKINE PLATEAU, RAB Bulletin 3
by N.F. Alley and G.K. Young, 1978.

a report on environmental hazards and predominant geomorphic processes affecting slopes in the Klappan area of the Skeena Mountains.

Surficial Geology

Vegetation maps show the distribution of Forest Regions, Zones and Subzones. These maps subdivide the landscape into biophysical units; homogeneous with respect to soils, surficial materials, disturbance history, climate and macro vegetation. Much of the data collected is interpreted and presented as vegetation type information with specific recommendations in multidisciplinary reports.

STANDARD DATA COLLECTION FORMS are used by Division personnel, resource agencies and universities. These are field forms and their use requires consultation with our plant ecologists. The Map Library can put you in touch with the appropriate people.

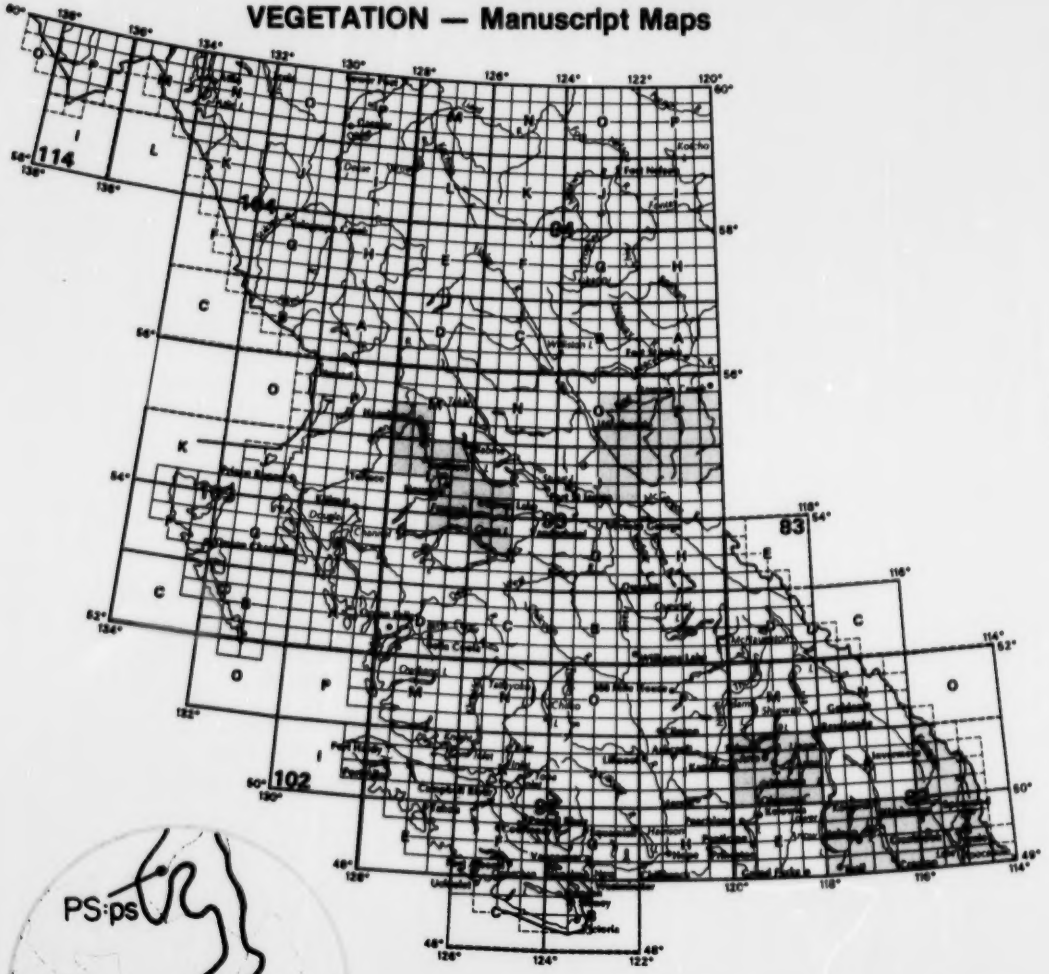
REPORTS

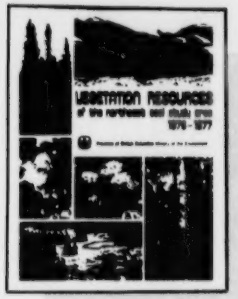
NORTHEAST COAL STUDY AREA 1977-1978: A LIST OF VASCULAR PLANT SPECIES, RAB Bulletin 11 *by A. Ceska, 1979.*

AN ILLUSTRATED KEY TO COMMON GRASS GENERA OF THE FESTUCOIDEAE (FESCUE FAMILY) OF BRITISH COLUMBIA (at press) *by J.W. van Barneveld, R.T. Ogilvie, M. Rafiq and G.F. Harcombe.*

the first of 4 keys for British Columbia, others are Dicotyledons, Monocotyledons, and Gymnosperms, *(in preparation)* to be published by the Provincial Museum.

VEGETATION — Manuscript Maps





VEGETATION RESOURCES OF THE NORTHEAST COAL STUDY AREA 1976-1977, RAB Bulletin 8 *by A.P. Harcombe, 1978.*

a report presenting baseline information to facilitate interpretations of the vegetation data for this and subsequent areas.

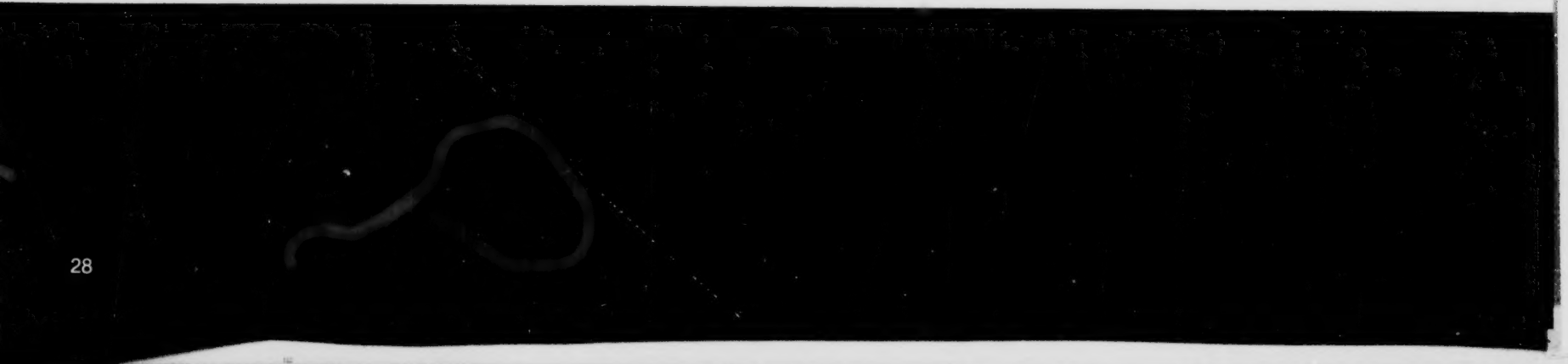
Vegetation Survey

The climatology group (Air Studies Branch) is responsible for collecting, collating and interpreting all pertinent air quality, climate and weather data relative to the needs of resource planners and managers.

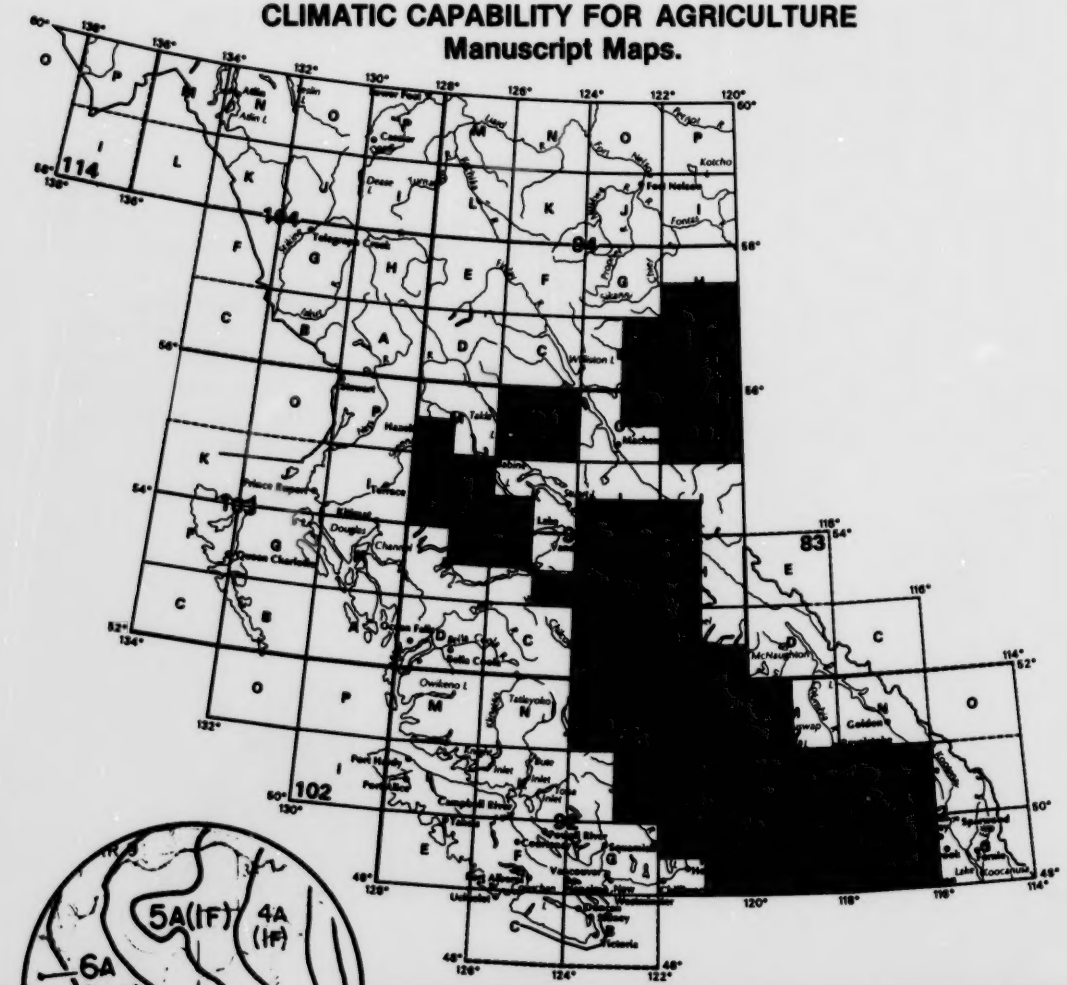
In 1979, the climate mapping program was expanded to 11 themes. Prior to this only three themes; Climatic Capability for Agriculture, Climatological Station Locations and May to September Precipitation were mapped. The revised mapping program adds a number of individual climate parameters; Freeze Free Period, Growing Degree Days, Effective Growing Degree Days, Climate Moisture Deficit/Surplus, Climatic Suitability for Recreation and Snowdepths on each of three dates during winter. Expanded legends were designed for each map providing such things as frequency analyses for individual stations located on the sheet.

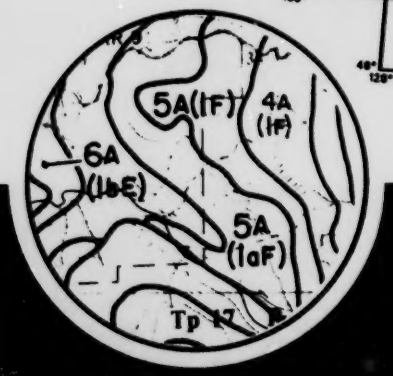
A computerized climate data file is maintained and a variety of analyses can be performed. Existing programs include analysis for occurrences of temperatures above and below specified values, potential evapotranspiration estimates for irrigation and effluent design, etc.

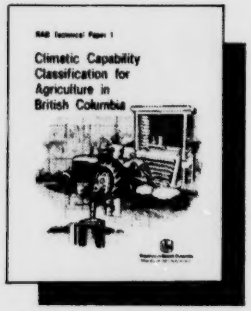
The Map Library can put you in touch with the appropriate people regarding priorities for the new mapping programs and computer analysis requests.

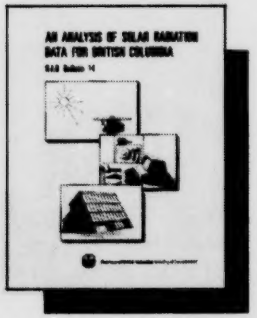


CLIMATIC CAPABILITY FOR AGRICULTURE
Manuscript Maps.









CLIMATIC CAPABILITY CLASSIFICATION FOR AGRICULTURE IN BRITISH COLUMBIA, RAB Technical Paper 1 *by the Climate Division, 1978* (Revised from Climatology Report No. 1, 1972).

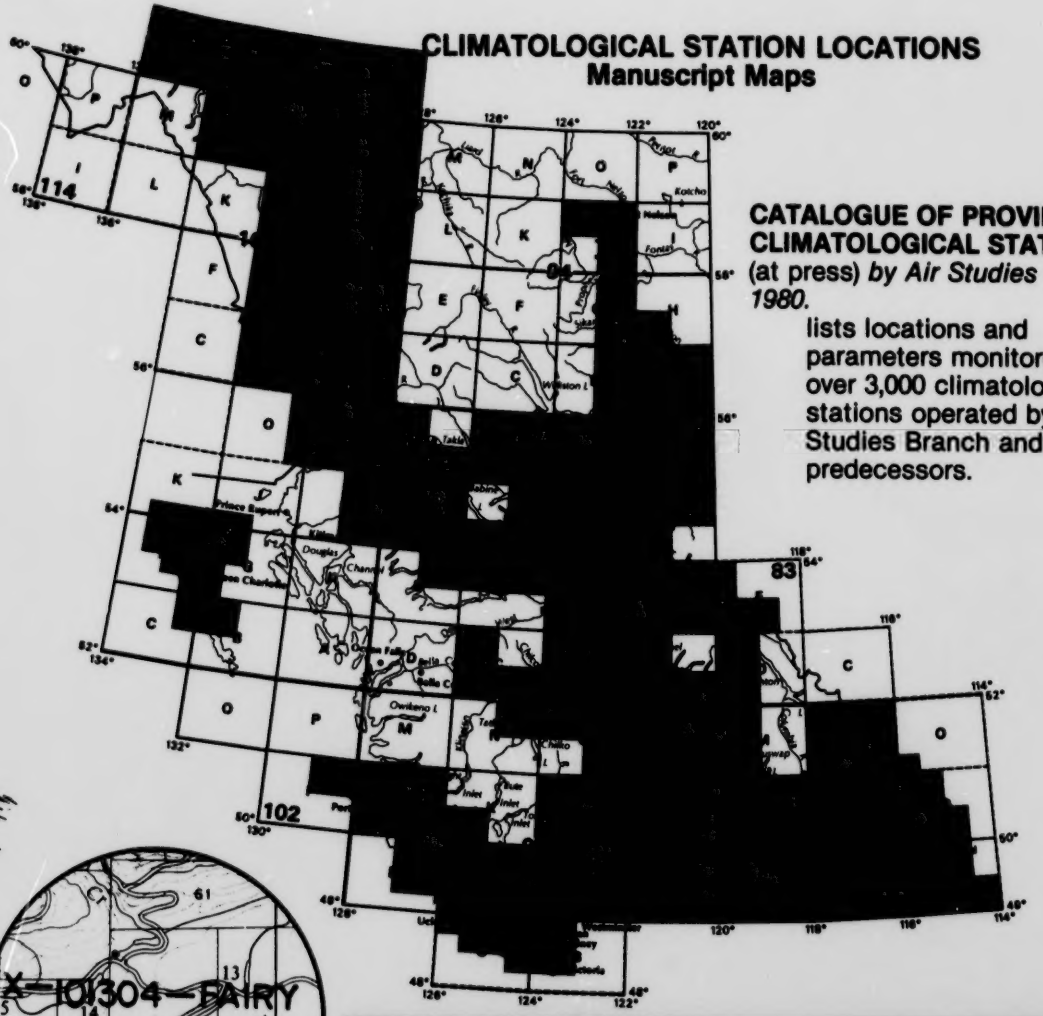
a report detailing a system of classification which describes the agriculture capability as influenced by climate alone.

AN ANALYSIS OF SOLAR RADIATION DATA FOR BRITISH COLUMBIA, RAB Bulletin 14 *by J.E. Day, 1980.*

a report presenting calculations of solar radiation for sloping surfaces which will provide valuable information for architects, engineers and others in the field of solar energy.

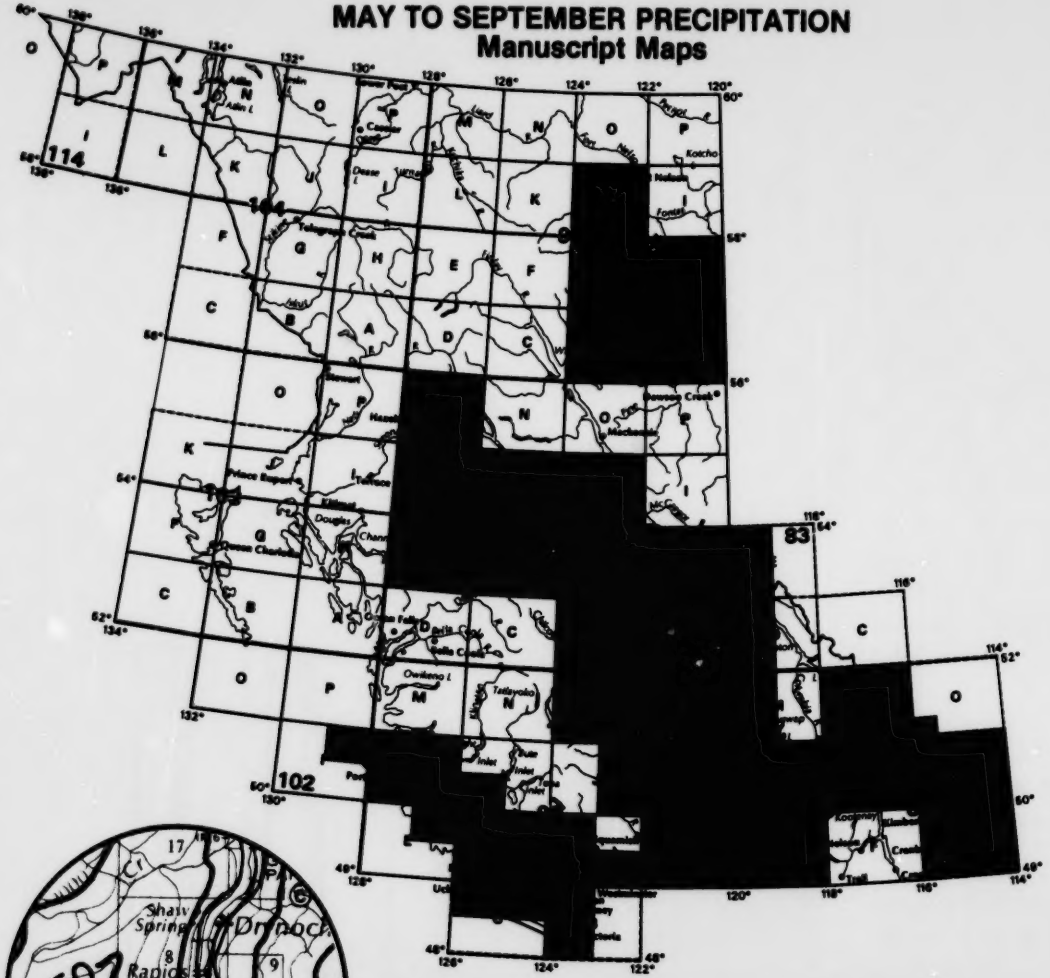
Climate

CLIMATOLOGICAL STATION LOCATIONS
Manuscript Maps



CATALOGUE OF PROVINCIAL CLIMATOLOGICAL STATIONS, (at press) *by Air Studies Branch, 1980.*

lists locations and parameters monitored for over 3,000 climatological stations operated by the Air Studies Branch and its predecessors.



REPORTS

* **AN ANALYSIS OF METEOROLOGICAL AND CLIMATOLOGICAL DATA FOR PROPOSED FERRY TERMINAL SITES IN GEORGIA STRAIT** *by M.F. Rose and R.C. Bennett, 1975.*

* **AN ASSESSMENT OF AIR POLLUTION IN THE HOWE SOUND AREA,** *Working Report by M.C. Coligado and R.G. Wilson, 1979.*

* **A TOPOCLIMATIC CLASSIFICATION TO MAP SPRING FROST RISK FOR SIX DECIDUOUS TREE FRUIT VARIETIES** *by R.L. Davis, 1975.* (Maps at a scale of 1:25 000 are available for various areas, contact the Map Library for a list of locations and species).

* **CLIMATE SUMMARY FOR THREE WATERSHEDS, THE TEMPLETON, MCDONALD AND GRASSY CREEKS IN THE EAST AND WEST KOOTENAYS** *by R.R. Chilton, 1975.*

* **CLIMATIC CONSTRAINTS TO LOGGING AND CLIMATIC SUITABILITY FOR RECREATION IN THE TERRACE-HAZELTON FOREST RESOURCES AREA** *by R.G. Wilson and R.D. Marsh, 1975.*

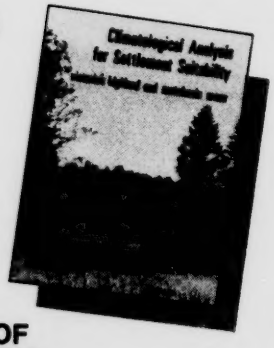
*Reference copy only.

Climate

CONTINUED

* **CLIMATIC SUITABILITY FOR RECREATION** *by M.F. Rose and R.C. Bennett, 1975.*

* **CLIMATIC SUITABILITY FOR RECREATION IN BRITISH COLUMBIA** *by R.C. Bennett, 1977.*



CLIMATOLOGICAL ANALYSIS FOR SETTLEMENT SUITABILITY - VICTORIA'S HIGHLAND AND METCHOSIN AREAS *by R.R. Chilton, 1978.*

* **CLIMATOLOGY OF THE GULF ISLANDS TRUST AREA** *by R.R. Chilton, 1975.*

* **D.A.T.E. PROJECT #20 - DETAILED MAPPING OF MICROCLIMATE UNITS IN THE OKANAGAN AND SIMILKAMEEN VALLEYS** *by R.L. Davis, 1975.*

* **FROST PROTECTION IN THE OKANAGAN VALLEY USING WIND MACHINES** *by R.L. Davis, 1974.*

* **GLENMORE VALLEY FROST POCKET REPORT** *by R.L. Davis, 1974.*

* **GUIDELINES FOR USE OF WIND MACHINES AS A FROST MANAGEMENT TOOL** *by R.L. Davis, 1975.*

* **MINIMUM TEMPERATURE PATTERNS IN THE SMITHERS REGION OF THE BULKLEY VALLEY** *by R.R. Chilton, 1975.*

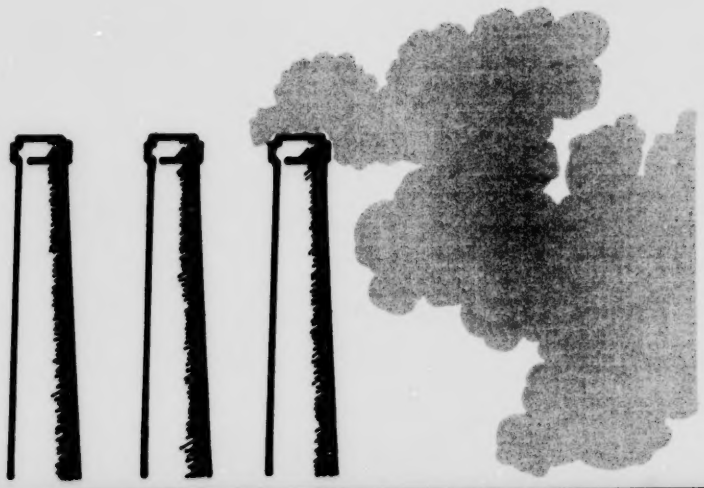
* **WIND DAMAGE TO FORESTED AREAS IN THE MacMILLAN PARK AREA OF THE CAMERON RIVER VALLEY** *by M.F. Rose, 1975.*

*Reference copy only.

Climate

CONTINUED

Studies have been conducted to assess the quality of air in the Kootenay and Omineca-Peace Regions. Both ambient air and emissions to air were assessed. The rate of emission of contaminants was measured and data on air quality and climatology were collected. The possible effects of contaminants on humans, vegetation, wildlife, water, other resources and products were considered.



REPORTS

BASELINE PARTICULATE CONCENTRATION IN AMBIENT AIR RELATED TO B.P. COAL PROJECT IN NORTHEAST BRITISH COLUMBIA *by M.S. Kotturi, 1978.*

CORROSION RATES OF METALS EXPOSED TO PULP MILL AND SMELTER EMISSION *by M.S. Kotturi, 1980.*

PHASE I, AIR QUALITY IN REGION A, THE ELKFORD-SPARWOOD-FERNIE AREA *by the Water Investigations Branch, 1976.*

PHASE I, AIR QUALITY IN REGION B, THE KIMBERLEY-SKOOKUMCHUCK-CRANBROOK AREA *by the Water Investigations Branch, 1976.*

PHASE I, AIR QUALITY IN REGION C, THE TRAIL-CASTLEGAR-NELSON AREA *by the Water Investigations Branch, 1977.*

PHASE II, AIR QUALITY IN REGION C, THE TRAIL-CASTLEGAR-NELSON AREA (in preparation) *by the Air Studies Branch.*

PHASE II, AIR QUALITY IN THE ELKFORD-SPARWOOD-FERNIE REGION *by the Water Investigations Branch, 1978.*

PHASE II, AIR QUALITY IN THE KIMBERLEY-SKOOKUMCHUCK-CRANBROOK REGION *by the Water Investigations Branch, 1978.*

PRELIMINARY DATA ON 1977 PARTICULATE CONCENTRATION IN AMBIENT AIR OF THE "CORE" AND "SOUTHEAST EXTENSION" AREAS OF NORTHEAST BRITISH COLUMBIA *by the Water Investigations Branch, 1978.*

Air Quality

The objectives of the Canada Land Inventory are basically: 1) to survey and classify lands in the settled portions of rural Canada and lands in adjacent areas, according to their inherent productive capability for use in agriculture, forestry, recreation and wildlife, 2) to map the approximate location and extent of each class and 3) to provide data analyses that would improve resource use planning.

Canada Land Inventory data is published in three series of colour (lithographed) maps at scales of 1:125 000 for agriculture (see index map on page 31) and forestry (see index map on page 39); 1:250 000 for recreation (see index map on page 41), ungulates (see index map on page 42) and waterfowl (see index map on page 43) capabilities and land capability analysis; and 1:1 000 000 for individual capability sectors.

REPORTS

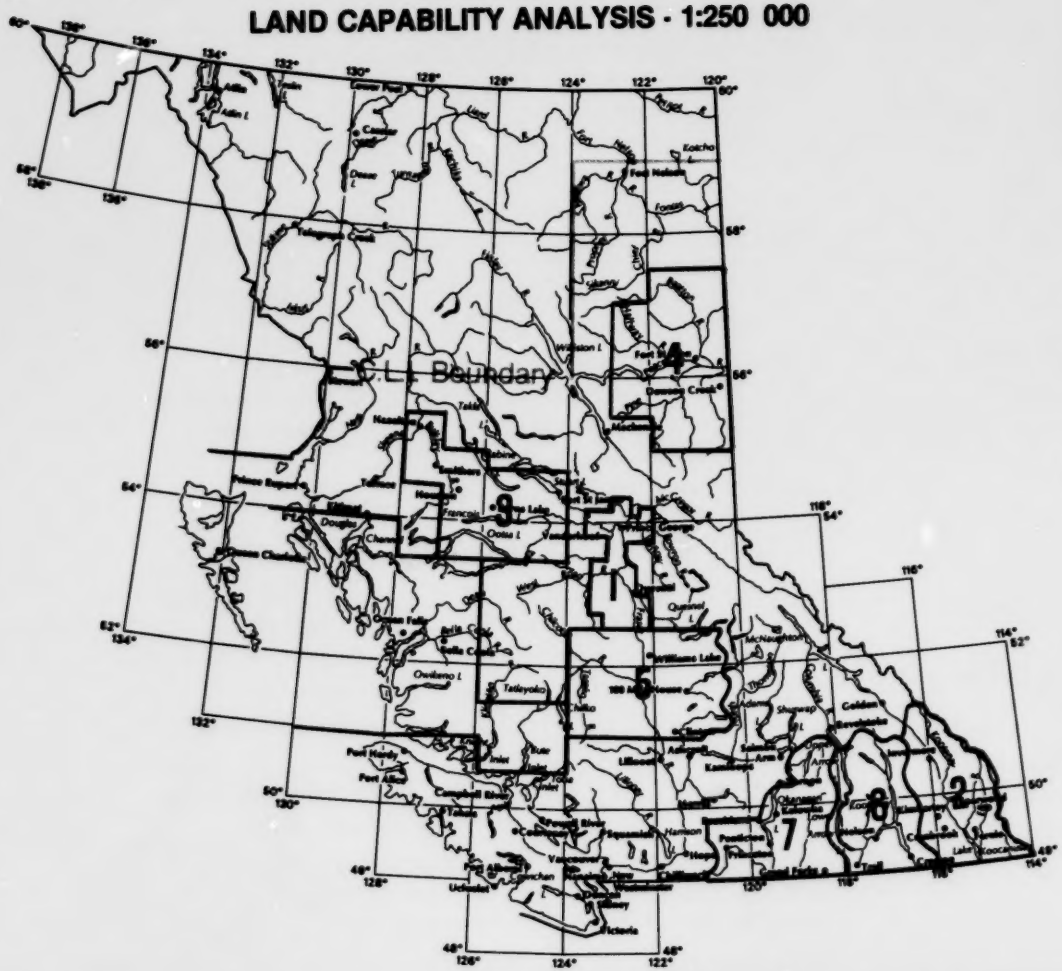
OBJECTIVES, SCOPES AND ORGANIZATION *by the Canada Land Inventory, Report No. 1, 1970.*
the first publication about the Canada Land Inventory providing background to the classifications for all sectors.

A GUIDE FOR RESOURCE PLANNING *by the Canada Land Inventory, 1970.*
a pamphlet outlining and illustrating the Canada Land Inventory Program.

CANADA LAND INVENTORY INDEX *by the Canada Land Inventory, 1978.*
shows Canada-wide coverage of Canada Land Inventory mapping.

LAND USE IN CANADA *by D.F. Symington, 1968.*
an illustrated report showing the application of the Canada Land Inventory to resource allocation and land use planning.

LAND CAPABILITY ANALYSIS - 1:250 000



The Land Capability Analysis (LCA) is interdisciplinary and makes comparisons among the sectors. Each sector is grouped into prime (or high), moderate, and limited capability. The Analysis shows only the best or primary capability of the land. This is done by an overlay process where all sectors are given equal weight and the sector with the highest rating is considered the best or most suitable user of the land.

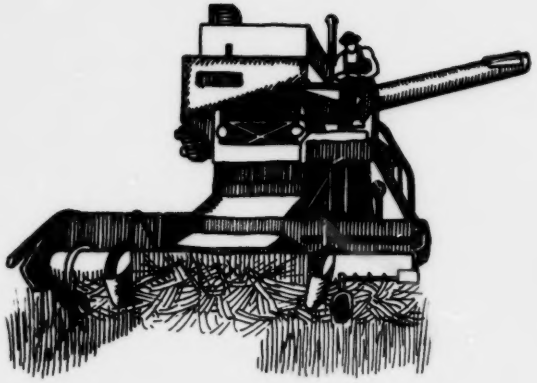
1. Prince George Special Sales Area.
2. East Kootenay
3. Bulkley
4. Peace River
5. Cariboo
6. West Kootenay
7. Okanagan (manuscript only)

1:1 000 000 MAP SERIES

Generalized from the published sector maps these show the spatial relationships between lands of high through low to nil capabilities for the given sector.

Available are:
Land Capability for Recreation
Land Capability for Wildlife - Ungulates
Land Capability for Wildlife - Waterfowl

Canada Land Inventory



Agriculture capability maps provide information on the limitations and potentialities of the land to grow a range of viable crops using a seven class system. The classification is derived from soils data and climate inventories.

In many areas of the Province, a dual rating system is applied indicating both dry farming and improved (irrigated and/or drained) conditions. The irrigated ratings do not take into consideration the availability of water.

Agriculture capability maps are used to prepare the Agriculture Land Reserve (ALR) plans in British Columbia. A map showing the generalized distribution of ALR's in the province is available at a scale of 1:2 000 000.

REPORTS

METHODOLOGY - LAND CAPABILITY FOR AGRICULTURE *by G.G. Runka, 1973.*

a manual describing the methodology used for the British Columbia agriculture capability mapping program.

SOIL CAPABILITY CLASSIFICATION FOR AGRICULTURE *by the Canada Land Inventory, Report No. 2, 1972.*

a manual for the interpretation of agriculture capability maps.

CLIMATIC CAPABILITY CLASSIFICATION FOR AGRICULTURE IN BRITISH COLUMBIA, RAB Technical Paper 1 *by the Climate Division, 1978* (Revised from Climatology Report No. 1, 1972).

* **LAND OF THE EAST KOOTENAYS - THEIR CHARACTERISTICS AND CAPABILITY FOR AGRICULTURE AND FORESTRY** *by G.G. Runka, 1969.*

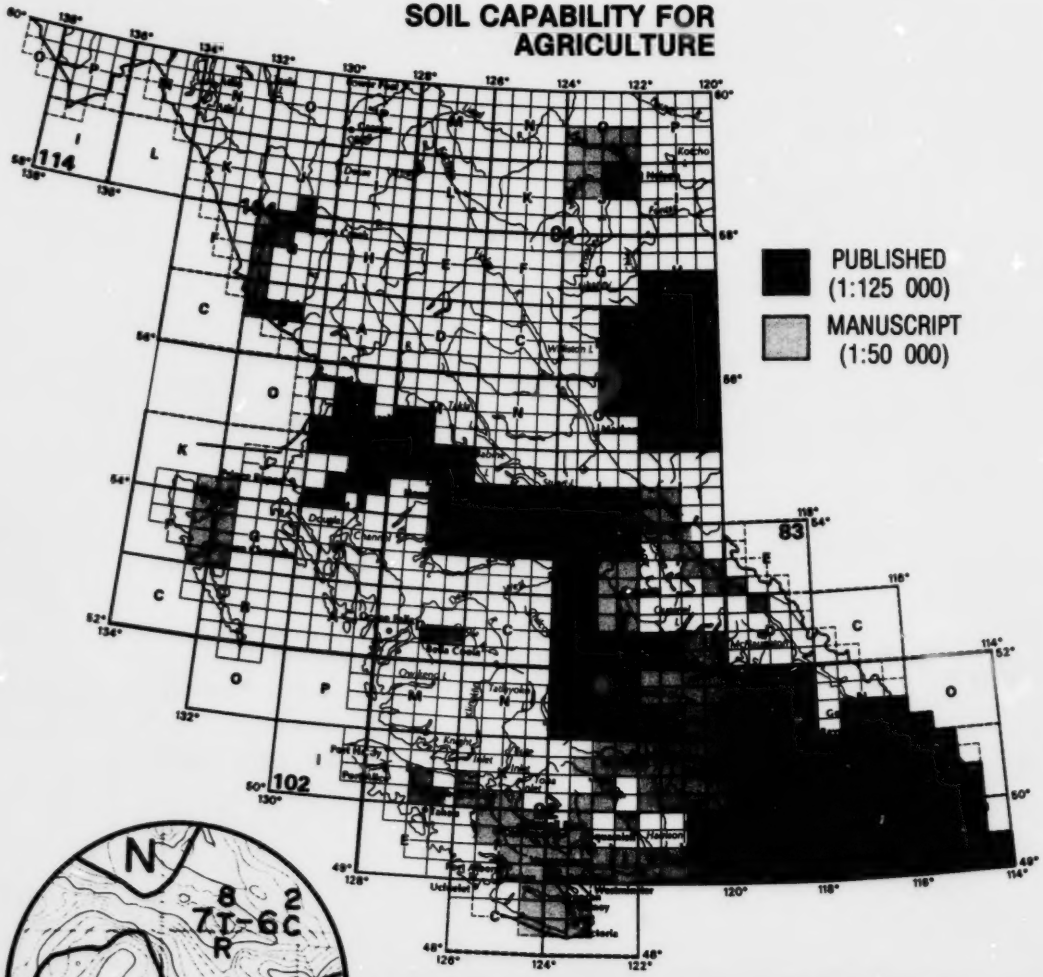
* **NECHAKO RIVER BASIN IRRIGATION STUDY: LANDS POTENTIALLY SUITABLE FOR AGRICULTURAL IRRIGATION,** *Working Report by R.M. Hinkley, 1980.*

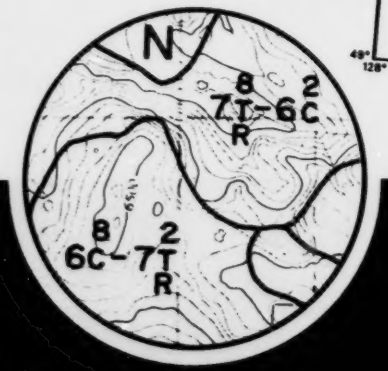
* **SOIL SURVEY AND SOIL CAPABILITY FOR AGRICULTURE RATING - BIG BEND AREA, BURNABY** *by R.L. Beale, 1977.*

TELEGRAPH CREEK AREA - SOIL AND AGRICULTURE CAPABILITY *by P.F. Epp and M.A. Fenger, 1978.*

* **THOMPSON RIVER BASIN PLANNING STUDY: LAND BENEFITING FROM AGRICULTURAL IRRIGATION,** *Working Report by H.A. Luttmerding, 1979.*

*Reference copy only.





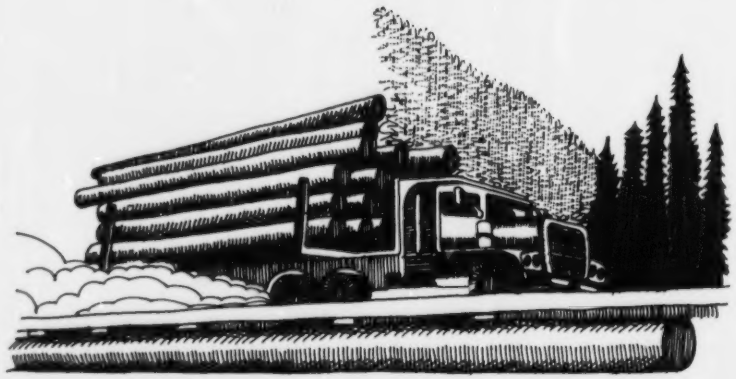
AGRICULTURE LAND CAPABILITY IN BRITISH COLUMBIA, RAB Resource Data 1
by the Environment and Land Use Committee Secretariat under ARDA Project 89077, 1976, reprinted 1979.

a report analysing soil capability for agriculture information and summarizing acreages for the capability classes by Agriculture Reporting Regions.

Agriculture Capability

Forest capability maps indicate the limitations of the land to support the production of commercial timber using a seven class system. It is based on the land in its neutral state without improvements such as fertilization and drainage where that area has been stocked with an optimum number and species of native trees.

British Columbia's west coast offers such excellent capabilities for forest growth that the Canada Land Inventory superclasses for Class 1 have been revised for the Province, allowing larger ranges for each superclass.



REPORTS

LAND CAPABILITY CLASSIFICATION FOR FORESTRY *by the Canada Land Inventory, Report No. 4, 1970.*
a manual for the interpretation of forest capability maps.

* **METHODOLOGY - LAND CAPABILITY FOR FORESTRY IN BRITISH COLUMBIA,** *by R.C. Kowall, 1971.*
a manual describing the methodology used in the British Columbia forest capability mapping program.

* **FOREST LAND CLASSIFICATION SURVEY AND INTERPRETATIONS FOR MANAGEMENT OF A PORTION OF THE NISKONLITH PROVINCIAL FOREST** *by P.N. Sprout, D.S. Lacate and J.W.C. Arlidge, 1966.*

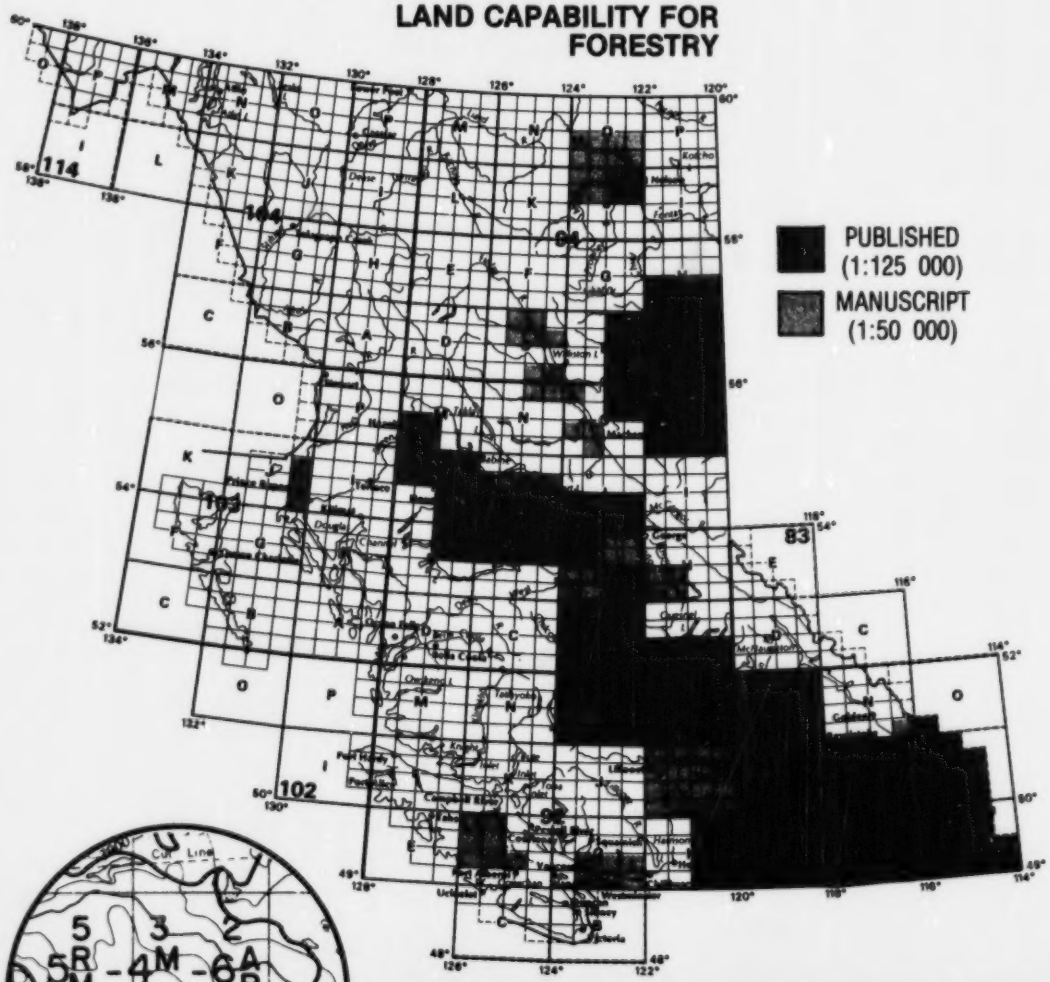
* **LANDS OF THE EAST KOOTENAYS - THEIR CHARACTERISTICS AND CAPABILITY FOR AGRICULTURE AND FORESTRY** *by G.G. Runka, 1969.*

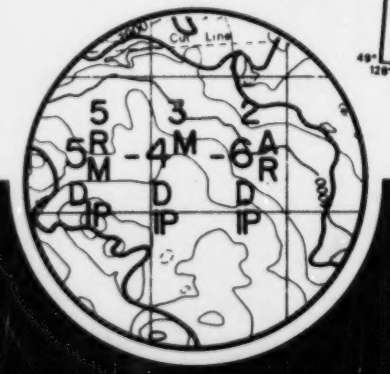
* **RECOMMENDED LOGGING SYSTEM BASED ON SOIL INFORMATION,** *Working Report by E. Kenk, 1979.*

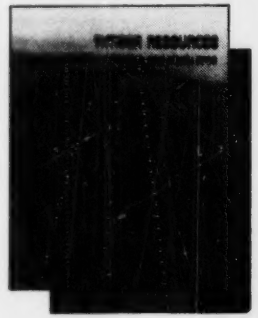
* **RELIABILITY OF THE CANADA LAND INVENTORY METHOD OF DETERMINING MEAN ANNUAL INCREMENTS IN BRITISH COLUMBIA** *by R.C. Kowall, 1969.*

* **TERRAIN IMPLICATIONS FOR FORESTRY, GUN LAKE AREA,** *Working Report by R. Maxwell, 1980.*

*Reference copy only.







TIMBER RESOURCES OF THE NORTHEAST COAL STUDY AREA *by L.E. Birch, 1980.*
a report on the distribution of merchantable wood in the Northeast Coal Block with possible locations for a new sawmill.

Forest Capability

Recreation capability maps provide an estimate of the quantity, quality and distribution of natural outdoor recreational lands as basis for planning use of the resource. A seven class system is used.

Outdoor recreation features mapping indicates the ability of land and water units to attract recreational use. Major natural and cultural features are shown for each unit. This is a preliminary modification of the C.L.I. system.

REPORTS

LAND CAPABILITY CLASSIFICATION FOR OUTDOOR RECREATION *by the Canada Land Inventory, Report No. 6, 1969.*

a manual for the interpretation of recreation capability maps.

* **RECREATION CAPABILITY INVENTORY: (1) CANADA LAND INVENTORY, (2) RESOURCE ANALYSIS UNIT** *by J. Block and V. Hignett, 1976.*

a manual which provides an inventory method of mapping outdoor recreation capability, features and carrying capacity.

* **CLIMATIC SUITABILITY FOR RECREATION IN BRITISH COLUMBIA** *by R.C. Bennett, 1977.*

* **GUIDE FOR RECREATIONAL FEATURES INVENTORY** *by D.R. Benn.*

GUIDELINES FOR MAPPING - RECREATION FACILITIES INVENTORY *by H.C.R. Gavin, 1970.* (Maps at a scale of 1:250 000 are also available).

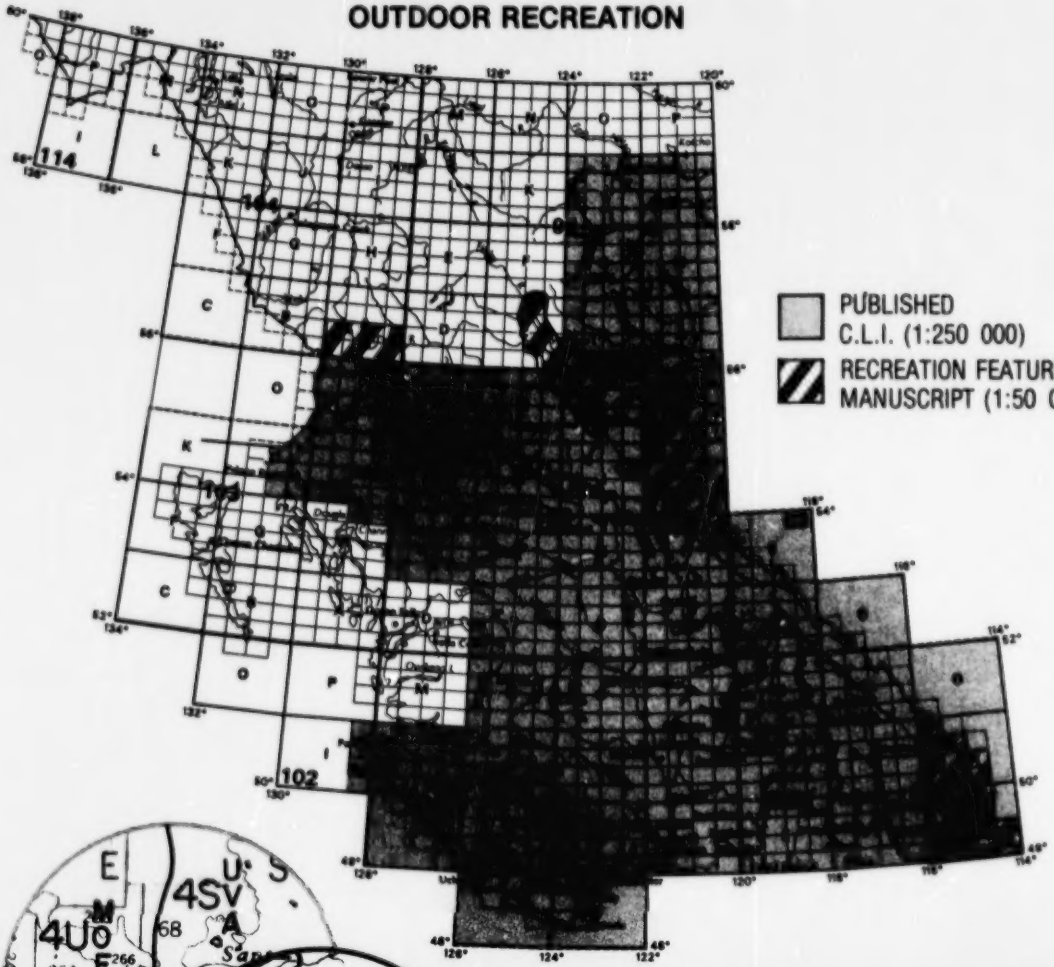
INTERPRETATION OF B.C. RECREATION CAPABILITY MAPS *by D.R. Benn, 1972.*

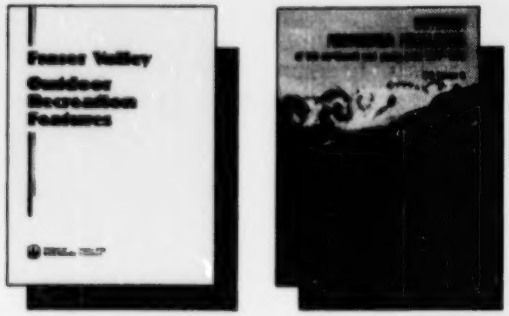
OUTDOOR RECREATION. BACKGROUND REPORT TO COQUITLAM RIVER MANAGEMENT STUDY *by P.D. Warrington and J.M. Goddard, 1976.*

OUTDOOR RECREATION RESOURCES OF THE NORTHEAST COAL STUDY AREA 1976-1977, RAB Bulletin 4 *by J. Block, 1977.*

* **RECREATION RESOURCES OF THE SMITHERS AREA** *by R.W. Falls and J. Block, 1975.*

* Reference copy only.



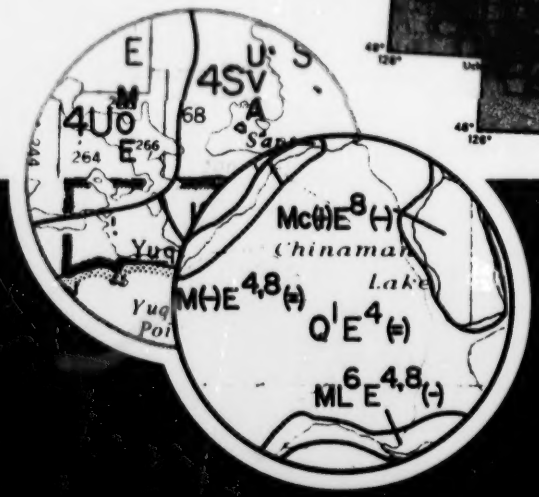


FRASER VALLEY OUTDOOR RECREATION FEATURES *by D. Benn, 1978.*

a map inventory of naturally occurring features along the central and eastern Fraser Valley.

OUTDOOR RECREATION RESOURCES OF THE NORTHEAST COAL STUDY AREA 1977-1978. RAB Bulletin 13 *by K. Sky, 1979.*

a report providing an analysis of recreational capability and suitability and evaluating the resource susceptibility to potential transportation and townsite developments.



Outdoor Recreation

CLI wildlife capability maps show the significant biological, climatic and physical characteristics of the land to support ungulates and waterfowl. Ungulates and waterfowl are mapped separately.

REPORTS

LAND CAPABILITY CLASSIFICATION FOR WILDLIFE *by the Canada Land Inventory, Report No. 7, 1970, reprinted 1973.*

a manual describing the classification schemes of both ungulate and waterfowl capability mapping programs.

METHODOLOGY LAND CAPABILITY FOR UNGULATES IN BRITISH COLUMBIA *by D. Blower, 1973.*

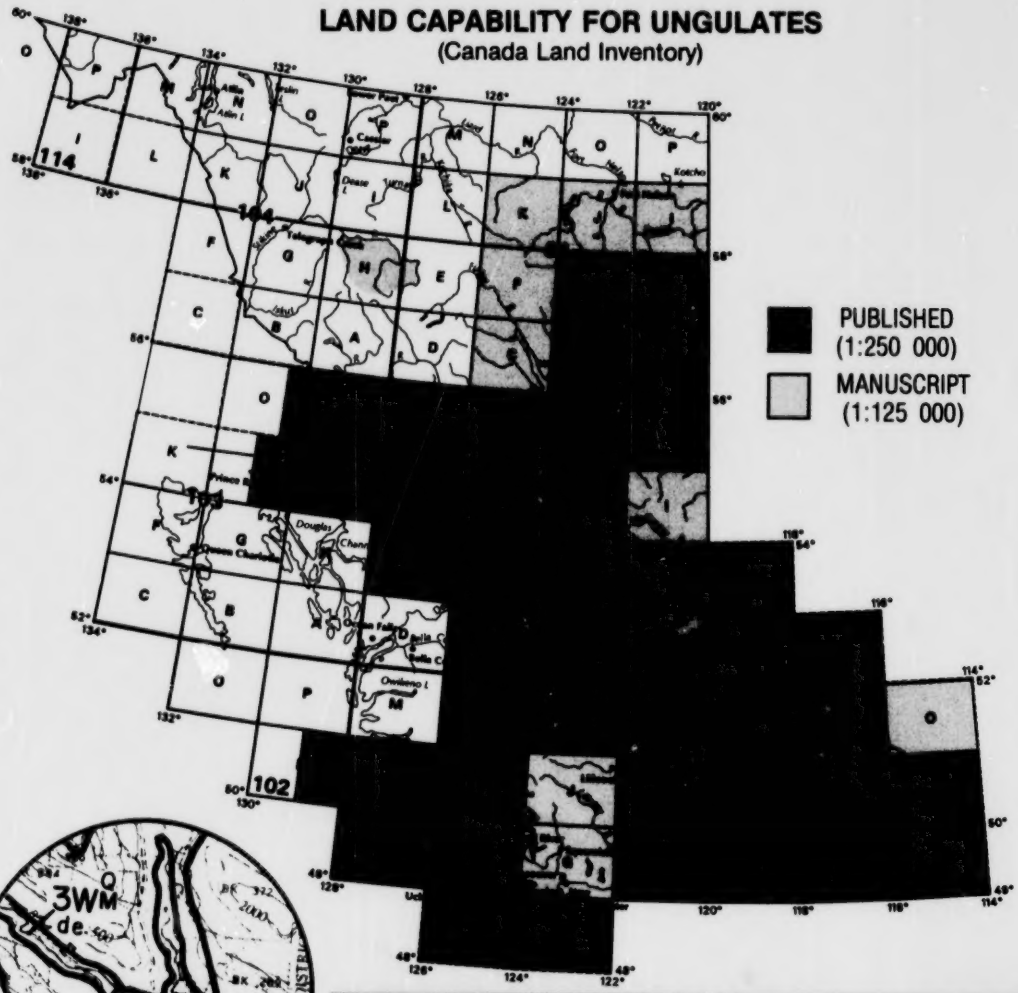
a manual describing the methodology used for the British Columbia ungulate capability inventory.

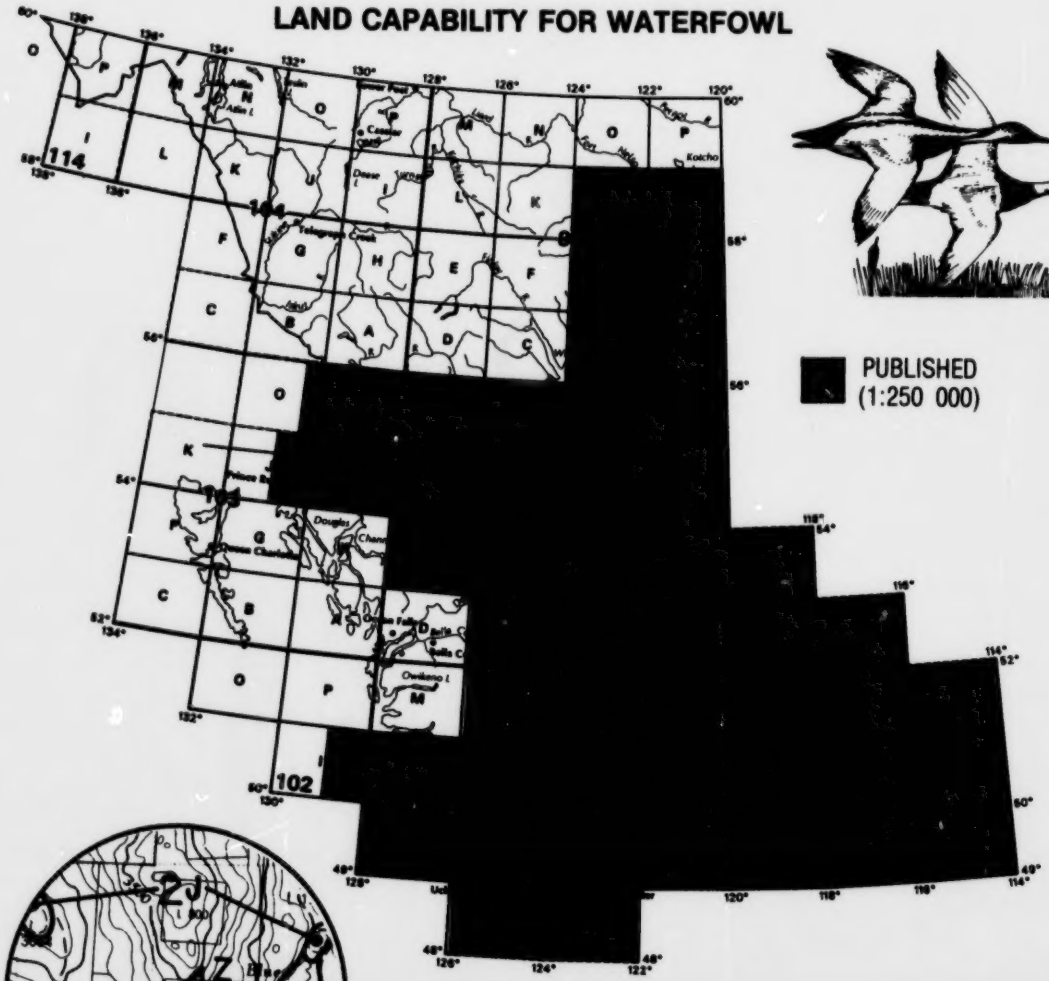
* **BIOPHYSICAL LAND CAPABILITY CLASSIFICATION FOR WILDLIFE (UNGULATES) GENERATION II,** *Working Report by the Wildlife Section, 1979.*

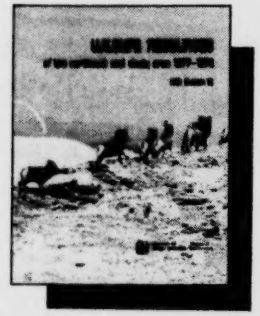
CRESTON WILDLIFE PILOT PROJECT *by G.K. Young, J.W. van Barneveld, A.J. Luckhurst and R.D. Marsh, 1973.*

* **FOOD HABITS OF WILD UNGULATES IN BRITISH COLUMBIA** *by J.M. Singleton, 1976.*

*Reference copy only.





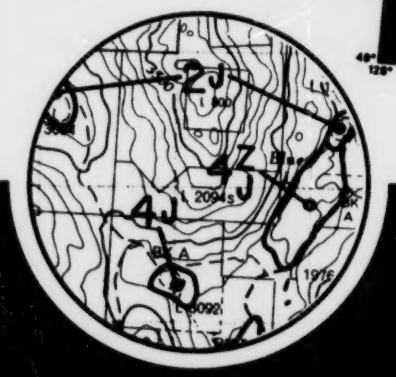


AQUATIC MIGRATORY BIRD RESOURCES OF THE NORTHEAST COAL STUDY AREA, RAB Bulletin 9 *by N.S. Trenholme, 1978.*

an inventory of aquatic migratory bird habitat in the area to identify usage patterns and assess impact of proposed coal developments.

WILDLIFE RESOURCES OF THE NORTHEAST COAL STUDY AREA 1977-1978, RAB Bulletin 12 *by the Resource Analysis Branch, 1979.*

a report giving a regional perspective of significant wildlife resources within the study area prior to implementation of coal-related development.



Wildlife

REPORTS (Continued)

***LAND CAPABILITY CLASSIFICATION FOR BEAVER** *by B. Slough.*

***RANGELAND BIOPHYSICAL CAPABILITY CLASSIFICATION,** *Working Report by D.A. Demarchi, 1979.*

***STONE SHEEP AND THEIR HABITAT IN THE NORTHERN ROCKY MOUNTAIN FOOTHILLS OF B.C.** *by A.J. Luckhurst, 1973.*

WILDLIFE RESOURCES OF THE NORTHEAST COAL STUDY AREA 1976-1977, RAB Bulletin 6 *by W.G. Smith, 1977.*

*Reference copy only.

Generalized Small Scale Mapping.

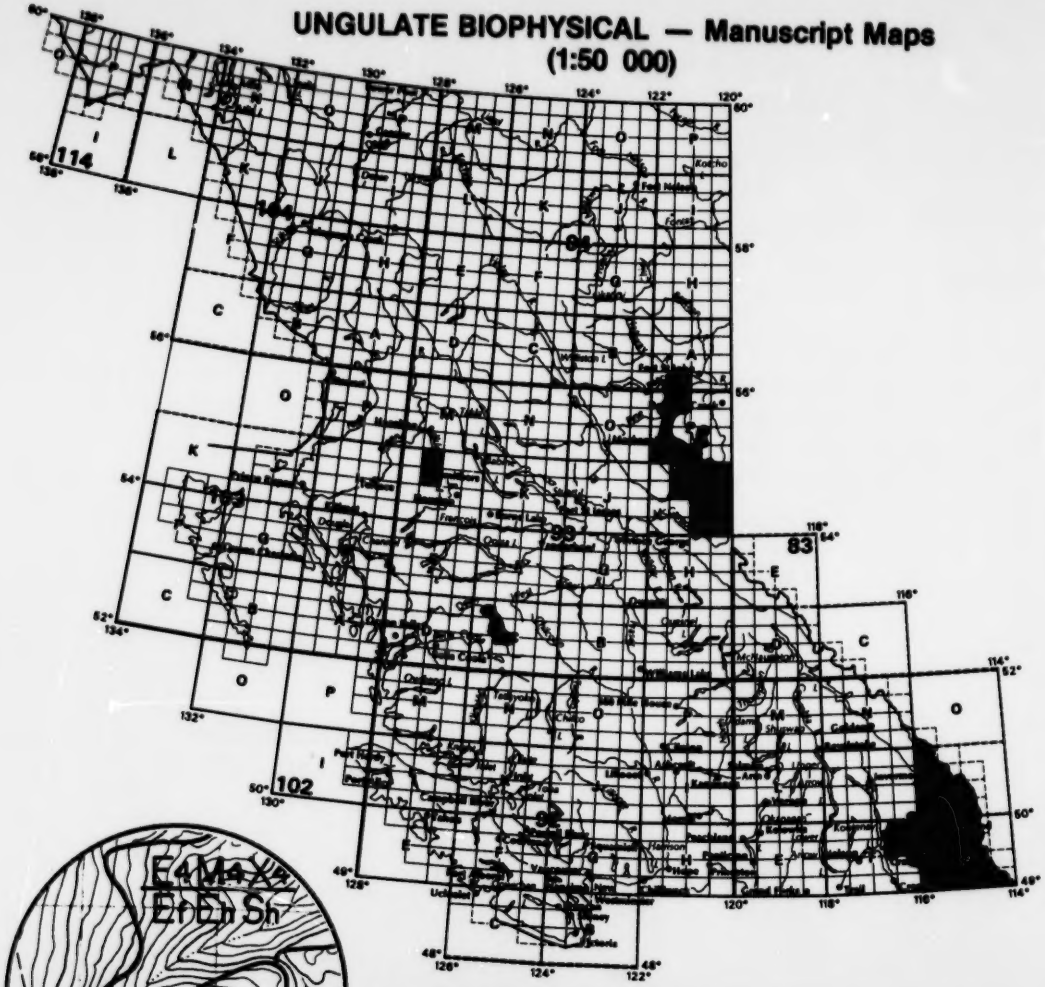
A series of maps at a scale of 1:250 000 is available for DISPERSION AND RELATIVE ABUNDANCE OF MOOSE IN NORTHERN B.C.

Generalized capability maps at 1:1 000 000 are available for UNGULATES, MOOSE, ELK and DEER (each series contains 6 map sheets).

Maps showing MOUNTAIN SHEEP DISTRIBUTION FOR B.C. and CATTLE DISTRIBUTION FOR B.C. are available at 1:1 900 800.

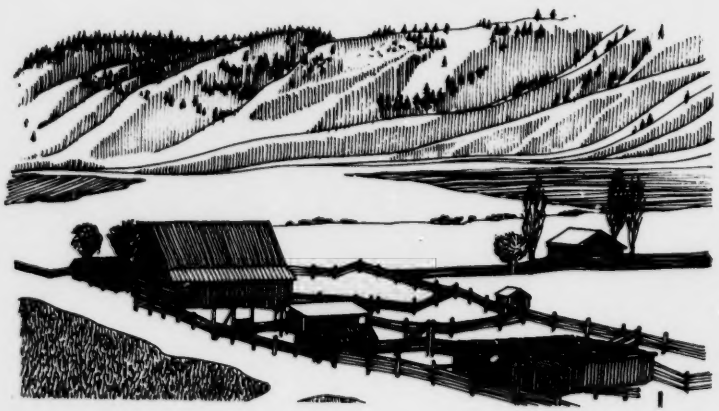
A big game series at 1:5 400 000 providing distribution information for ELK, MOUNTAIN GOAT, CARIBOU, MOOSE, GRIZZLY BEAR, WOLF, COUGAR, BLACK-TAILED DEER, WHITE-TAILED DEER, BLACK BEAR and MOUNTAIN SHEEP.

UNGULATE BIOPHYSICAL — Manuscript Maps (1:50 000)



Ungulate Biophysical mapping rates the ability of the land to meet the total needs of species over the long term. Map units are assigned capabilities evaluated on the basis of their position in the ecosystem as a whole and not in isolation. A modification from the CLI, the system classifies the land unit's ability to support designated species (moose, elk, caribou, mountain goat, mountain sheep, white-tailed deer, mule deer, and black-tailed deer).

Present land use maps show the location and extent of major land uses permitting a comparison between present use and assessed capability of the land. These maps are important in land use management decision making but can quickly become out-of-date, particularly in urban and agricultural areas. The maps are categorized by conventions established by the World Land Use Commission.



REPORTS

PRESENT LAND USE PROJECT IN BRITISH COLUMBIA *by G.I. Howell Jones, 1972.*
a pamphlet aid in the interpretation of present land use maps.

* **PRESENT LAND USE CLASSIFICATION FOR CANADA LAND INVENTORY** *by the Agriculture Rehabilitation and Development Act (A.R.D.A. program), 1965.*
a manual describing the interpretation of present land use mapping.

AN INVENTORY OF LAND RESOURCES AND RESOURCE POTENTIAL IN THE CAPITAL REGIONAL DISTRICT *edited by C.V. Stanley-Jones and W.A. Benson, 1973.*

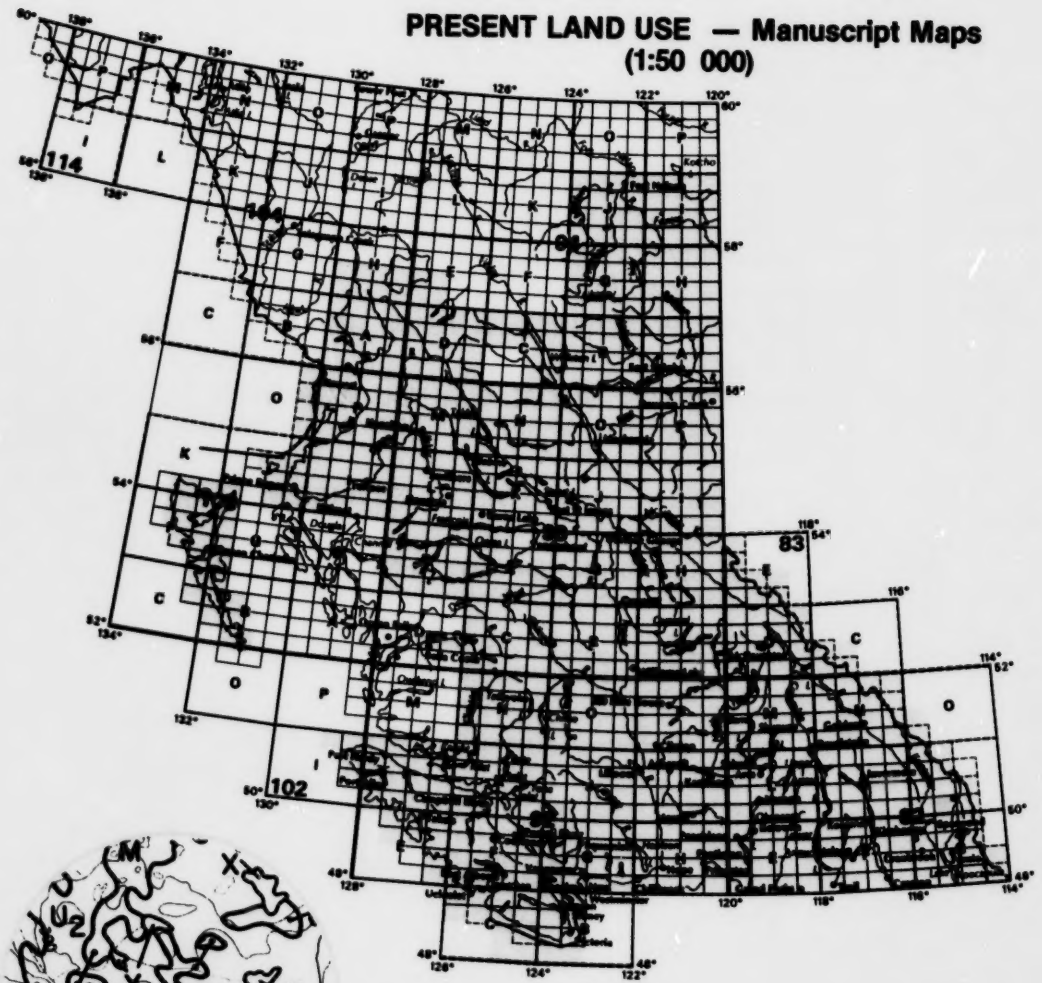
* **DRAGON MOUNTAIN AREA NEAR QUESNEL, B.C., A RESOURCE ANALYSIS OF SETTLEMENT SUITABILITY,** *Working Report by L. Lacelle et al, 1979.*

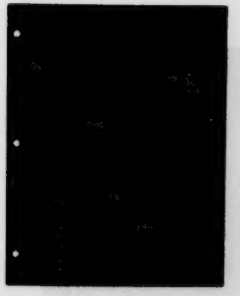
* **JACK FROST LAKE AREA NEAR 100 MILE HOUSE, B.C., A RESOURCE ANALYSIS OF SETTLEMENT SUITABILITY,** *Working Report by T.W. Chamberlin, R.L. Beale and W.G. Smith, 1977.*

TOWARDS INTEGRATED LAND USE MANAGEMENT *report of the Sub-Committee on Multiple Use, National Committee on Forest Land, 1970.*

*Reference copy only.

PRESENT LAND USE — Manuscript Maps (1:50 000)





***EARLE LAKE PROJECT - A RESOURCE ANALYSIS** *by R.L. Beale, 1978.*
a study to formulate a land use plan for Crown Lands in the area by analysing terrain, soils, agriculture, climate and aquatic data.

Visual analysis mapping shows landscape quality and vulnerability to development. The analysis provides alternatives where priority is given to the protection of landscapes of high scenic quality. Projects may involve large scale corridor assessment or site specific areas. The mapping reflects the growing concern with alterations to the environment by developing methods for protecting or enhancing the visual resource acceptable to land use management activities.

REPORTS

* **LANDSCAPE ARCHITECTURE AND THE VISUAL RESOURCE** *by W.C. Yeomans, 1975.*
  proceedings and workshop summary addressing the concepts, principles and objectives of mapping the visual resource.

ADAMS RIVER - A RESOURCE ANALYSIS *by W.C. Yeomans et al, 1977.*

* **NAHMINT WATERSHED - A VISUAL IMPACT STUDY** *by R. Horner.*

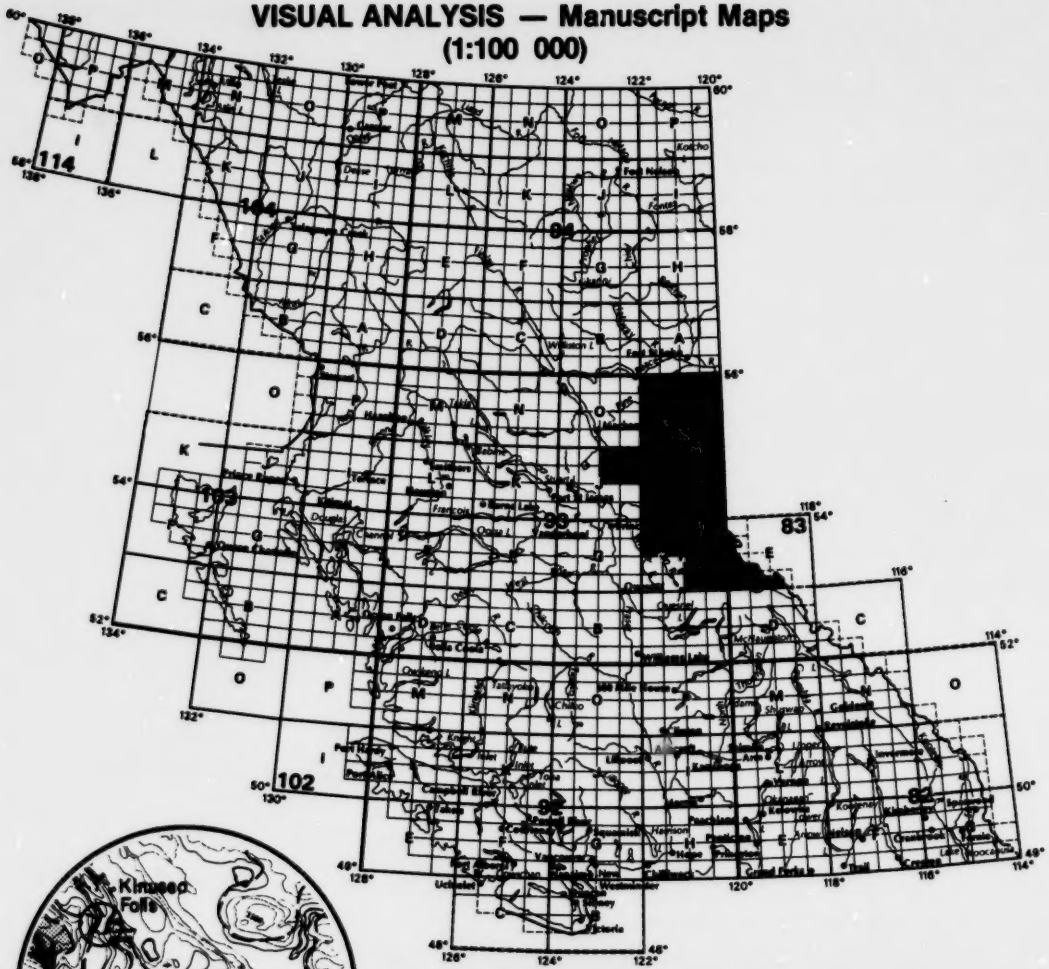
* **PROCEEDINGS - VISUAL ANALYSIS WORKSHOP, PARKSVILLE, B.C. APRIL 26-28, 1977** *by the Resource Analysis Branch, 1977.*

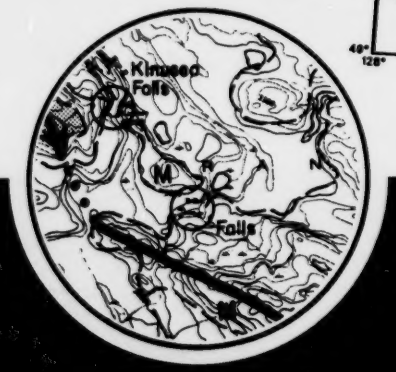
SPALLUMCHEEN - THE VISUAL ENVIRONMENT *by W.C. Yeomans, 1977.*

* **VISUAL RESOURCE MANAGEMENT WORKSHOP, VICTORIA, B.C.** *by W.C. Yeomans et al, 1976.*

*Reference copy only.

VISUAL ANALYSIS — Manuscript Maps (1:100 000)





VISUAL RESOURCES OF THE NORTHEAST COAL STUDY AREA 1976-1977, RAB Bulletin 5
by R.J. Tetlow and S.R.J. Sheppard, 1977.

a report assessing the visual impacts of proposed transportation developments and providing landscape recommendations for resource management programs in the area.

Visual Analysis

Headquarters at:

REGION 1: VANCOUVER ISLAND
324 Terminal Avenue
Nanaimo, B.C. V9R 5C8
Phone: 754-1371.

REGION 2: LOWER MAINLAND
15326 — 103A Avenue
Surrey, B.C. V3R 7A2
Phone: 584-8822

REGION 3: THOMPSON-NICOLA
523 Columbia Street
Kamloops, B.C. V2C 2T6
Phone: 374-4112

REGION 4: KOOTENAY
310 Ward Street
Nelson, B.C. V1L 5S4
Phone: 352-7260 and 7269

REGION 5: CARIBOO
Temporarily in Region 3 offices.

REGION 6: SKEENA
Box 3250
Smithers, B.C. V0J 2N0
Phone: 847-4411

REGION 7: OMINECA-PEACE
1011 Fourth Avenue
Prince George, B.C. V2L 3H9
Phone: 493-2714

REGION 8: OKANAGAN
257 Brunswick Street
Penticton, B.C. V2A 5P9
Phone: 493-2714

MINISTRY OF ENVIRONMENT REGIONS

	STUDY AREA	SCALE	DATE
Region 1	**Vancouver Island.**		
	Capital Regional District Study *(Accompanying Report)*	1:50 000	1973
	Comox-Oyster River Soil Capability for Agriculture	1:20 000	1976
	Gulf Islands Natural Areas Inventory	1:50 000	1977
*	Kakweiken Study	1:50 000	1974
	Nimpkish Study	1:31 680	1967
	Shawinigan Lake Soil Survey	1:20 000	1978
Region 2	**Lower Mainland.**		
	Alta Lake - Detailed Soil Survey *(Accompanying Report)*	1:24 000	1971
	Big Bend Study *(Accompanying Report)*	1:25 000	1977
	Bowen Island Resource Analysis Folio *(Accompanying Report)*	1:10 000	1977
	Burrard Inlet Third Crossing Study *(Accompanying Report)*	1:25 000	1972
	Chilliwack - Ryder Lake Uplands Folio	1:20 000	1978
	Cypress Creek - Lawson Creek Study	1:50 000	1977
	Dewdney - Alouette Study *(Accompanying Report)*	1:20 000	1977
	Fraser River Estuary Study	1:50 000	1978
	Fraser Valley Recreation Features *(Accompanying Report)*	1:25 000	1978
	Gulf Island Natural Areas Inventory	1:50 000	1977
	Langley Resource Folio	1:10 000	1976
	Lower Fraser Valley - Detailed Soil Survey *(Accompanying Report)*	1:24 000	1961-1972
	Lower Fraser Valley Natural Areas Inventory *(Accompanying Report)*	1:25 000	1976
	Lower Mainland Official Regional Plan Update	1:50 000	1979
	Northshore Study	1:25 000	1977
	Potlatch Creek Resource Folio	1:20 000	1979
	Powell River Soil Capability for Agriculture	1:20 000	1977
*	Sardis Resource Folio *(Accompanying Report)*	1:25 000	1975
	Upper Lillooet River Resource Folio	1:20 000	1979

*Reference copy only.

Detailed Map Projects

Detailed map projects are done for user agencies on request for specific areas at 1:50 000 scale or larger. Depending on the request, the inputs in each study will vary. The Map Library can provide you with a detailed index list of themes for each particular project listed above.

In some cases mapping is done as an inclusion into reports or reports have been written to provide more information.

	STUDY AREA	SCALE	DATE
Region 3	**Thompson-Nicola.**		
	Adams River Study *(Accompanying Report)*	1:20 000	1977
	Ashcroft-Savona - Detailed Soil Survey *(Accompanying Report)*	1:31 680	1963
	Eagle River Valley - Detailed Soil Survey *(Accompanying Report)*	1:31 680	1964
	East Canoe Resource Folio *(Accompanying Report)*	1:20 000	1980
	Gun Lake Resource Folio *(Accompanying Report)*	1:31 680	1980
	Louis Creek Study (92P/1)	1:50 000	1975
	North Okanagan Valley - Detailed Soil Survey *(Accompanying Report)*	1:31 680	1963
	Salmon Arm Resource Folio	1:20 000	1979
	Shuswap Lakes - Detailed Soil Survey *(Accompanying Report)*	1:31 680	1965
	Sicamous Resource Folio	1:20 000	1979
Region 4	**Kootenay.**		
	Cranbrook Environmental Protection Areas	1:20 000	1978
	Creston - Detailed Soil Survey *(Accompanying Report)*	1:31 680	1971
	Fry Creek Surficial Geology	1:50 000	1977
	Golden Resource Folio *(Accompanying Report)*	1: 5 400	1975
	Lower Arrow Reservoir Resource Analysis Folio *(Accompanying Report)*	1:20 000	1977
	Southeast Kootenay Region - Corridors	1:50 000	1977
	Southeast Kootenay Region - Resource Analysis Folios *(Accompanying Report)*	1:20 000	1977
	Springbrook Biophysical Folio	1:50 000	1975

*Reference copy only

	STUDY AREA	SCALE	DATE
Region 5	**Cariboo.**		
	Dragon Mountain Resource Folio *(Accompanying Report)*	1:20 000	1979
	Earle Lake Resource Folio *(Accompanying Report)*	1:20 000	1978
	Fox Mountain Resource Folio *(Accompanying Report)*	1:20 000	1976
	Jack Frost Lake Resource Folio *(Accompanying Report)*	1:20 000	1979
*	Kimsquit Study	1:50 000	1974
	Miocene Resource Folio	1:20 000	1978
	Pantage Lake Community Pasture Study	1:20 000	1976
*	Sheemahant Drainage Study	1:50 000	1974
	South Side Williams Lake Community Pasture Study	1:20 000	1976
Region 6	**Skeena.**		
	Babine Mountains Integrated Management Unit	1:50 000	1976
	Maxan Lake Study	1:12 500	1977
	Rennel Sound/Eden Lake Geology *(Accompanying Report)*	1:50 000	1978
	Telegraph Creek Resource Folio *(Accompanying Report)*	1:50 000	1977
	Telkwa North Resource Folio	1:20 000	1978

*Reference copy only.

Detailed Map Projects

CONTINUED

	STUDY AREA	SCALE	DATE
Region 7	**Omineca-Peace.**		
	Aquatic Migratory Bird Inventory *(Accompanying Report)*	1:50 000	1977
	Bullmoose Creek Resource Folio (93P/3)	1:50 000	1978
	Farrell Creek Pasture Study	1:31 680	1974
	Giscome Community Pasture Study	1:20 000	1976
	Groundbirch Pasture Study	1:50 000	1975
	WN Ranch Community Pasture Study	1:20 000	1976
Region 8	**Okanagan.**		
	Cosens Bay Study *(Accompanying Report)*	1: 9 600	1977
	East Canoe Resource Folio *(Accompanying Report)*	1:20 000	1980
	North Okanagan Valley - Detailed Soil Survey *(Accompanying Report)*	1:31 680	1963
	Okanagan Frost Risk Zones *(Accompanying Report)*	1:25 000	1977
	Similkameen River Valley - Detailed Soil Survey *(Accompanying Report)*	1:31 680	1961
	Vernon Area Terrain Characteristics *(Accompanying Report)*	1:20 000	1979

*Reference copy only.

Detailed Map Projects

CONTINUED

	STUDY AREA	SCALE	DATE
Provincial			
	Agricultural Land Reserve of British Columbia	1:1 000 000 1:2 000 000	1975
	British Columbia Climate Atlas	1:1 900 800 1:3 801 600	1966
	Cattle Distribution in British Columbia	1:1 900 800	1973
	Land Capability for Wildlife	1:1 000 000 1:2 000 000	1972
	Mountain Sheep Distribution in British Columbia	1:1 900 800	1973
	Recreation Facilities Inventory *(Accompanying Report)*	1: 250 000	1970
	Resource Management Regions	1:1 900 800 1: 633 600 1: 250 000 1: 125 000	1975
Region 1	**Vancouver Island**		
	Southwest Coast - Climatological Station Network	1: 633 600	1976
	Vancouver Island Generalized Forest Capability	1: 250 000	1979
Region 2	**Lower Mainland**		
	Burrard Inlet Crossing Study *(Accompanying Report)*	1: 125 000	1972
	Southwest Coast - Climatological Station Network	1: 633 600	1976
Region 3	**Thompson-Nicola**		
	* 70 Mile House Resource Folio	1: 125 000	1967

*Reference copy only.

Small scale generalized map projects are done for user agencies on request for specific areas at a scale smaller than 1:50 000. Depending on the request, the inputs will vary. The Map Library can provide you with a detailed index and list of themes for each particular project listed above.

In some cases mapping is done as an inclusion into reports or reports have been written to provide more information.

Generalized Map Projects

Region 4	**Kootenay**		
*	East Kootenay Resource Folio	1: 250 000	1971
	Okanagan Land Capability Analysis	1: 125 000	1974
		1: 250 000	
	Purcell Wilderness Study	1: 125 000	1974
		1: 250 000	
		1: 633 600	
	Southeast Kootenay Study	1: 250 000	1977
	Springbrook Biophysical Study	1: 100 000	1975
	West Kootenay Land Capability Analysis	1: 125 000	1974
		1: 250 000	
Region 5	**Cariboo**		
*	70 Mile House Resource Folio	1: 125 000	1967
Region 6	**Skeena**		
*	Bulkley Resource Folio	1: 250 000	1970
	Dispersion and Relative Abundance of Moose in Northern B.C.	1: 250 000	1977
	Houston Study	1: 125 000	1976
	Kinskuch-Tchitin Aquatics Biophysical	1: 100 000	1975
	Kitimat-Terrace Study	1: 100 000	1976
	Klappan Study *(Accompanying Report)*	1: 100 000	1978
		1: 200 000	
	Northwest Study	1: 125 000	1974
	Northwestern B.C. Study	1:1 000 000	1974
	Prince Rupert Study	1: 100 000	1976
	Queen Charlotte Islands Resource Folio	1: 126 720	1973
	Smithers Study	1: 125 000	1976
	Terrace-Hazelton Forest Resources Study	1: 250 000	1976
		1: 500 000	
		1:1 000 000	

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STUDY AREA	SCALE	DATE
Region 7 Omineca-Peace		
Bulkley Resource Folio	1: 250 000	1970
Dispersion and Relative Abundance of Moose in Northern B.C.	1: 250 000	1977
Foothills (North B.C.) Pipeline Routes	1: 633 600	1977
Fort Simpson - Fort Nelson Terrain Types	1: 250 000	1976
Northeast Coal Study *(Accompanying Report Series)*	1: 250 000	1977
Northeast Coal Study - S.E. Extension *(Accompanying Report Series)*	1: 250 000	1978
Northwest Study	1: 125 000	1974
Northwestern B.C. Study	1:1 000 000	1974
Sturdee Road Resource Folio *(Accompanying Report in preparation)*	1: 69 600	1978
Williston Study	1: 100 000	1976
	1: 250 000	
	1: 500 000	1976
	1:1 000 000	
Region 8 Okanagan		
Land Systems of the South Okanagan	1: 125 000	1969
Okanagan Land Capability Analysis	1: 125 000	
	1: 250 000	1974

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Generalized Map Projects

APD REPORT PUBLISHING PROGRAM

The Assessment and Planning Division publishes various types of reports following a set of guidelines defining quality, quantity, content and audience for each category.

Unpolished, limited circulation reports, are categorized as *Working Reports*. These are rapid turn-around documents generated in response to specific requests. Less than two hundred copies are printed and when stocks run out, the report is converted to microfiche. Duplicates of this microfilm are available on request.

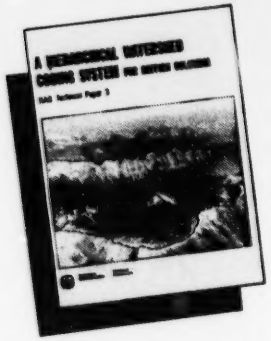
For wider circulation the Division publishes two series of reports for public distribution. **Regular Series** reports are distinct by subject matter, purpose, significance and manner of presentation and indicate a level of scientific and technical quality. Each report is numbered sequentially within the four separate series.

A *Report* is a major summary publication resulting from studies of broad scope or multidisciplinary studies. A glossy document, it combines general results from supporting Bulletins, for a broad audience. The *Bulletin* is the major series for publication of scientific or technical work, single or multidiscipline. Bulletins contain significant new knowledge, interpretations or application of resource data. A *Technical Paper* is a description of methods or techniques used in inventory or interpretive work. Completing the series are *Resource Data* reports, used for disseminating inventory data collected and expressed in map or tabular form.

The **Occasional Series** polished publications are for reports that are infrequent. Unlike the regular series categories, these are not numbered sequentially, using the date of publication as identification.

The *Monograph* is a highly detailed and thoroughly documented study written on a limited area of subject or field of inquiry. The *Proceedings* from Division sponsored workshops, conferences, etc. make up another category. *Circulars* are short, simple pamphlets providing educational or informational data to non-specialist users.

PROVINCE



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— **WATER QUALITY IN REGION 7, THE UPPER COLUMBIA RIVER BASIN** *by the Water Investigations Branch, 1976.*

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— **WATER QUALITY IN REGION 9, THE KETTLE RIVER BASIN** *by the Water Investigations Branch, 1976.*

KOOTENAY AIR & WATER QUALITY STUDY. PHASE II.

— **AIR QUALITY IN THE ELKFORD-SPARWOOD-FERNIE REGION,** *by the Water Investigations Branch, 1978.*

— **AIR QUALITY IN THE KIMBERLY-SKOOKUMCHUCK-CRANBROOK REGION** *by the Water Investigations Branch, 1978.*

— **AIR QUALITY IN REGION C, THE TRAIL-CASTLEGAR-NELSON REGION,** (in preparation) *by the Air Studies Branch.*

— **WATER QUALITY IN THE ELK AND FLATBED RIVER BASINS** *by the Water Investigations Branch, 1978.*

— **WATER QUALITY IN THE LOWER COLUMBIA RIVER BASIN** *by the Water Investigations Branch, 1979.*

* **LANDS OF THE EAST KOOTENAYS - THEIR CHARACTERISTICS AND CAPABILITY FOR AGRICULTURE AND FORESTRY** *by G.G. Runka, 1969.*

LOWER ARROW LAKES RESOURCE ANALYSIS FOR RURAL RESETTLEMENT *by T.W. Chamberlin, R.L. Beale and W.G. Smith, 1977.*

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Reports

REGION 4

PROGRESS REPORT, EXPLOSIVES/WATER QUALITY STUDY AT FORDING COAL LIMITED *by L.W. Pommen and R.N. Nordin, 1979.*

RECOMMENDED LOGGING SYSTEM BASED ON SOIL INFORMATION, *Working Report by E. Kenk, 1979*

* **RESOURCE INVENTORY AND INTERPRETATIONS FOR URBAN DEVELOPMENT AND TRANSPORTATION REQUIREMENTS FOR THE SOUTHEAST KOOTENAY AREA** *by M.E. Walmsley, 1977.*

RESPONSE OF KOOTENAY LAKE TO CHANGES IN NUTRIENT LOADING AND IMPOUNDMENT OF KOOCANUSA RESERVOIR (in preparation) *by R.N. Nordin and R.J. Crozier.*

SOIL AND TERRAIN REPORT OF THE SEYMOUR ARM AREA, RAB Bulletin 19 (at press) *by R.C. Kowall, 1980.*

SOIL AND VEGETATION RESOURCES OF THE PEND-D'OREILLE VALLEY, B.C. Bulletin (in preparation) *by T. Vold, R.F. Ferster, T.K. Ovanin, R.D. Marsh and G.P. Woods.*

SOIL RESOURCES OF THE LARDEAU MAP AREA, RAB Bulletin 15 *by U. Wittneben, 1980.*

SOIL RESOURCES OF THE NELSON MAP AREA, RAB Bulletin 20 (at press) *by J. Jungen, 1980.*

* **SOIL SURVEY FOR URBAN SUITABILITY ANALYSIS - TOWN OF GOLDEN, B.C.** *by R.L. Beale and T. Rollerson, 1975.*

SOIL SURVEY OF THE CRESTON AREA, INTERIM REPORT, *by U. Wittneben and P.N. Sprout, 1971.*

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SOIL SURVEY OF THE KETTLE RIVER VALLEY IN THE BOUNDARY DISTRICT OF BRITISH COLUMBIA, Report No. 7, *by C.C. Kelley and W.D. Holland, 1961.*

SOIL SURVEY OF THE UPPER KOOTENAYS AND ELK RIVER VALLEYS IN THE EAST KOOTENAY DISTRICT OF BRITISH COLUMBIA, Report No. 5, *by C.C. Kelley and P.N. Sprout, 1956.*

SOME OBSERVATIONS OF THE WATER QUALITY OF TIE LAKE, B.C. *by J. Goddard, 1976.*

* **SPRINGBROOK PROJECT - AN APPROACH TO EVALUATING MULTIPLE RESOURCE USE ALTERNATIVES** *by J. O'Riordan, 1975.*

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Reports

REGION 4

REGION 5 - CARIBOO

* **DRAGON MOUNTAIN AREA NEAR QUESNEL, B.C. A RESOURCE ANALYSIS OF SETTLEMENT SUITABILITY,** *Working Report by L. Lacelle et al, 1979.*

* **EARLE LAKE PROJECT - A RESOURCE ANALYSIS** *by R.L. Beale, 1978.*

* **FOX MOUNTAIN PROJECT AREA** *by R.L. Beale, 1976.*

* **JACK FROST LAKE AREA NEAR 100 MILE HOUSE, B.C., A RESOURCE ANALYSIS OF SETTLEMENT SUITABILITY,** *Working Report by T.W. Chamberlin, R.L. Beale and W.G. Smith, 1977.*

* **MORAN DAM ENVIRONMENTAL ANALYSIS** *by the Canada Land Inventory, 1972.*

OBSERVATIONS ON THE WATER QUALITY OF WILLIAMS LAKE, Data report for the period 1974-1976 *by J. Goddard, 1977.*

* **SOILS IN THE CARIBOO RIVER VALLEY, B.C. WITH SELECTED ENGINEERING INTERPRETATIONS,** *Working Report by T. Vold, 1980.*

SOILS OF THE LAC LA HACHE - CLINTON AREA, Report No. 25 *by K.W.G. Valentine, 1980.*

SOIL SURVEY OF THE QUESNEL, NECHAKO, FRANCOIS LAKE AND BULKLEY-TERRACE AREAS IN THE CENTRAL INTERIOR OF BRITISH COLUMBIA, Report No. 4, *by L. Farstad and D.G. Laird, 1954.*

*Reference copy only.

REGION 6 -
SKEENA

ASPECTS OF ENVIRONMENTAL GEOLOGY, PARTS OF GRAHAM ISLAND, QUEEN CHARLOTTE ISLANDS, RAB Bulletin 2 *by N.F. Alley and B. Thomson, 1978.*

* **BIOPHYSICAL MAPPING REPORT ON LAND USE PROBLEMS IN THE STIKINE** *by the Canada Land Inventory.*

* **CLIMATIC CONSTRAINTS TO LOGGING AND CLIMATIC SUITABILITY FOR RECREATION IN THE TERRACE-HAZELTON FOREST RESOURCES STUDY AREA** *by R.G. Wilson and R.D. Marsh, 1975.*

ENGINEERING FEASIBILITY OF DRAINING DOWN KATHLYN LAKE *by L.A. Bergman, 1980.*

* **ENVIRONMENTAL HAZARDS IN THE KLAPPAN RIVER VALLEYS** *by G.K. Young, 1974.*

ENVIRONMENTAL SIGNIFICANCE OF GEOMORPHIC PROCESSES IN THE NORTHERN SKEENA MOUNTAINS AND SOUTHERN STIKINE PLATEAU, RAB Bulletin 3 *by N.F. Alley and G.K. Young, 1978.*

* **MIDDLETON MOUNTAIN URBAN SUITABILITY STUDY** *by R.C. Kowall.*

* **MINIMUM TEMPERATURE PATTERNS IN THE SMITHERS REGION OF THE BULKLEY VALLEY** *by R. Chilton, 1975.*

PRINCE RUPERT HARBOUR PROVINCIAL AGENCY PROGRAM 3, TASKS 1 and 2: OCEANOGRAPHY AND WATER QUALITY *by R.W. Drinnan and I. Webster, 1974.*

PRINCE RUPERT HARBOUR PROVINCIAL AGENCY PROGRAM 3, TASK 3: INTERTIDAL BEACH BIOLOGY *by R.W. Drinnan, 1974.*

*Reference copy only.

* **PROTECTION FORESTS IN THE SMITHERS-HAZELTON AREA**
by R. Kot, P. Warrington and R. Travers.

* **RECREATION RESOURCES OF THE SMITHERS AREA**
by R.W. Falls and H.J. Block, 1975.

SOIL RESOURCES OF THE SMITHERS-HAZELTON AREA, INTERIM REPORT,
by G.G. Runka, 1972, reprinted 1974.

SOIL SURVEY OF THE QUESNEL, NECHAKO, FRANCOIS LAKE AND BULKLEY-TERRACE AREAS IN THE CENTRAL INTERIOR OF BRITISH COLUMBIA, Report No. 4 *by L. Farstad and D.G. Laird, 1954.*

SOILS OF THE NECHAKO-FRANCOIS LAKE AREA, (INTERIM REPORT)
by I. Cotic, 1974.

TELEGRAPH CREEK AREA - SOIL AND AGRICULTURE CAPABILITY
by P.F. Epp and M.A. Fenger, 1978.

* **TERRACE-HAZELTON REGIONAL FOREST RESOURCES STUDY - SUMMARY REPORT** *by the Environment and Land Use Committee Secretariat Resource Planning Unit, 1976.*

* **TERRACE-HAZELTON REGIONAL FOREST RESOURCES STUDY - TECHNICAL REPORT** *by the Environment and Land Use Committee Secretariat Resource Planning Unit, 1976.*

TERRAIN INVENTORY AND LATE PLEISTOCENE HISTORY OF THE SOUTHERN PART OF THE NECHAKO PLATEAU, RAB Bulletin 1 *by D.E. Howes, 1977.*

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REGION 7 -
OMINECA-PEACE

* **ALPINE SOILS AND PLANT COMMUNITIES OF A STONE SHEEP HABITAT IN N.E. BRITISH COLUMBIA** *by T.M. Lord and A.J. Luckhurst.*

AQUATIC INVENTORY AND ANALYSIS IN THE VICINITY OF THE PROPOSED TUMBLER RIDGE TOWNSITE, RAB Bulletin 17 *by M.J. Miles and E.A. Harding, 1980.*

AQUATIC MIGRATORY BIRD RESOURCES OF THE NORTHEAST COAL STUDY AREA, RAB Bulletin 9 *by the Environment and Land Use Sub-Committee on N.E. Coal Development, 1978.*

AQUATIC SYSTEM UNITS OF THE NORTHEAST COAL STUDY AREA, RAB Bulletin 10 *by E.A. Harding, 1979.*

BASELINE PARTICULATE CONCENTRATION IN AMBIENT AIR RELATED TO B.P. COAL PROJECT IN NORTHEAST BRITISH COLUMBIA *by M.S. Kotturi, 1979.*

BIOPHYSICAL SOIL RESOURCES AND LAND EVALUATION OF THE NORTHEAST COAL STUDY AREA 1976-1977 (2 VOLUMES), RAB Bulletin 7 *by T. Vold, R. Hardy and R. Maxwell, 1977.*

NECHAKO RIVER BASIN IRRIGATION STUDY: LANDS POTENTIALLY SUITABLE FOR AGRICULTURAL IRRIGATION, *Working Report by R.M. Hinkley, 1980.*

A LIST OF VASCULAR PLANT SPECIES, RAB Bulletin 11 *by A Ceska.*

NORTHEAST COAL STUDY AREA 1977-1978:

* **NORTHEAST COAL STUDY PRELIMINARY ENVIRONMENTAL REPORT 1977-1978** *by the Environmental and Land Use Sub-Committee on N.E. Coal Development, 1978. (Available from Queen's Printer).*

*Reference copy only

* **NORTHEAST COAL STUDY - PRELIMINARY ENVIRONMENTAL REPORT ON PROPOSED TRANSPORTATION LINKS AND TOWNSITES** *by the Environmental and Land Use Sub-Committee on N.E. Coal Development, 1977. (Available from Queen's Printer).*

* **OUTDOOR RECREATIONAL POTENTIAL IN THE WILLISTON STUDY MAP AREA** *by D.M.V. Coombes, 1976.*

OUTDOOR RECREATION RESOURCES OF THE NORTHEAST COAL STUDY AREA 1976-1977, RAB Bulletin 4 *by J. Block, 1977.*

OUTDOOR RECREATION RESOURCES OF THE NORTHEAST COAL STUDY AREA 1977-1978, RAB Bulletin 13 *by K. Sky, 1979.*

PRELIMINARY DATA ON 1977 PARTICULATE CONCENTRATION IN AMBIENT AIR OF THE "CORE" AND "SOUTHEAST EXTENSION" AREAS OF NORTHEAST BRITISH COLUMBIA *by Water Investigations Branch, 1978.*

* **RECONNAISSANCE BIOPHYSICAL INVESTIGATIONS FOR AN ENVIRONMENTAL IMPACT ASSESSMENT REPORT OF THE PROPOSED FORT NELSON TO FORT SIMPSON HIGHWAY** *by M.E. Walmsley and A.N. Boydell, 1975.*

REGIONAL HYDROLOGY OF THE NORTHEAST COAL STUDY AREA, *Bulletin* (in preparation) *by M.J. Miles.*

SOILS OF THE FORT NELSON AREA OF BRITISH COLUMBIA, REPORT No. 12 *by K.W.G. Valentine, 1971.*

SOILS OF THE UPPER PART OF THE FRASER VALLEY IN THE ROCKY MOUNTAIN TRENCH OF BRITISH COLUMBIA, REPORT No. 10 *by H.J. Hortie, A.J. Green and T.M. Lord, 1970.*

SOIL SURVEY OF THE PEACE RIVER AREA IN BRITISH COLUMBIA, REPORT No. 8 *by L. Farstad, T.M. Lord, A.J. Green and H.J. Hortie, 1965.*

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* **SOIL SURVEY OF THE PRINCE GEORGE AREA, REPORT No. 2** *by C.C. Kelley and L. Farstad, 1946.*

SOIL SURVEY OF THE QUESNEL, NECHAKO, FRANCOIS LAKE AND BULKLEY-TERRACE AREAS IN THE CENTRAL INTERIOR OF BRITISH COLUMBIA, REPORT No. 4 *by L. Farstad and D.G. Laird, 1954.*

* **STONE SHEEP AND THEIR HABITAT IN THE NORTHERN ROCKY MOUNTAIN FOOTHILLS OF B.C.** *by A.J. Luckhurst, 1973.*

* **VEGETATION RESOURCES OF THE NORTHEAST COAL STUDY AREA 1976-1977, RAB Bulletin 8** *by A.P. Harcombe, 1978.*

VISUAL RESOURCES OF THE NORTHEAST COAL STUDY AREA 1976-1977, RAB Bulletin 5 *by R.J. Tetlow and S.R.J. Sheppard, 1977.*

WATER QUALITY OF THE NORTHEAST AREA OF BRITISH COLUMBIA. PRELIMINARY REPORT ON 1976 WATER QUALITY MONITORING *by the Water Investigations Branch, 1976.*

WATER QUALITY OF THE NORTHEAST AREA OF BRITISH COLUMBIA.

— **1976. PRELIMINARY WATER QUALITY DATA FOR POTENTIAL DOMESTIC WATER SUPPLY** *by the Water Investigations Branch, 1976.*

— **1977. SURFACE WATER QUALITY DATA FOR POTENTIAL DOMESTIC WATER SUPPLY IN "CORE" AREA** *by the Water Investigations Branch, 1978.*

WATER QUALITY OF NORTHEAST BRITISH COLUMBIA: VOLUME TWO — DATA APPENDICES TO REPORT ON 1977 WATER QUALITY MONITORING *by the Water Investigations Branch, 1978.*

*Reference copy only.

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WATER QUALITY OF THE NORTHEAST AREA OF BRITISH COLUMBIA: 1978 SURFACE WATER QUALITY DATA *by the Water Investigations Branch, 1979.*

WILDLIFE RESOURCES OF THE NORTHEAST COAL STUDY AREA 1976-1977, RAB Bulletin 6 *by the Resource Analysis Branch, 1977.*

WILDLIFE RESOURCES OF THE NORTHEAST COAL STUDY AREA 1977-1978, RAB Bulletin 12 *by the Resource Analysis Branch, 1979.*

REGION 8 -
OKANAGAN

* **A LANDSCAPE APPROACH TO LAND CLASSIFICATON AND PLANNING - OKANAGAN VALLEY** *by R.A. Hawes, 1974.*

AN INEXPENSIVE *IN SITU* ALGAL BIOASSAY PROCEDURE WITH SOME PRELIMINARY RESULTS BEARING ON NUTRIENT LIMITATIONS IN SKAHA LAKE *by R. Nordin, 1978.*

CONTINUATION OF THE NARAMATA WATER QUALITY STUDY *by J.J. Feddes, 1976.*

* **D.A.T.E. PROJECT #20 - DETAILED MAPPING OF MICROCLIMATE UNITS IN THE OKANAGAN AND SIMILKAMEEN VALLEYS** *by R.L. Davis, 1975.*

ENGINEERING FEASIBILITY OF CLEANING OUT RESERVOIR ON COLDSTREAM CREEK *by L.A. Bergman, 1980.*

* **FROST PROTECTION IN THE OKANAGAN VALLEY USING WIND MACHINES** *by R.L. Davis, 1974.*

* **GLENMORE VALLEY FROST POCKET REPORT** *by R.L. Davis, 1974.*

KALAMALKA-WOOD LAKE BASIN WATER RESOURCE MANAGEMENT STUDY *by L.A. Bergman, 1980.*

* **MOODY CREEK WATERSHED: RECONNAISSANCE EROSION ASSESSMENT,** *Working Report by R.E. Maxwell, 1980.*

OBSERVATIONS ON THE WATER QUALITY IN THE CHAIN-LINK-OSPREY LAKES SYSTEM 1973-1976. PARTS 1 and 2 *by J. Goddard, 1977.*

OBSERVATION ON THE WATER QUALITY IN THE CHAIN-LINK-OSPREY LAKES SYSTEM 1973-1976, PART 3: WATER QUALITY FOR OSPREY LAKE *by J. Goddard, 1978.*

*Reference copy only.

SOILS OF THE PRINCETON AREA OF BRITISH COLUMBIA, Report No. 14
by A.J. Green and T.M. Lord, 1979.

SOILS OF THE TULAMEEN AREA OF BRITISH COLUMBIA, Report No. 13
by T.M. Lord and A.J. Green, 1974.

SOIL SURVEY OF THE NORTH OKANAGAN, INTERIM REPORT,
by P.N. Sprout and C.C. Kelley, 1960.

SOIL SURVEY OF THE OKANAGAN AND SIMILKAMEEN VALLEYS, Report No. 3
by C.C. Kelley and R.H. Spilsbury, 1949.

SOIL SURVEY OF THE SIMILKAMEEN VALLEY, HEDLEY TO 49TH PARALLEL, INTERIM REPORT *by P.N. Sprout and C.C. Kelley, 1961.*

SPALLUMCHEEN - THE VISUAL ENVIRONMENT *by W.C. Yeomans, 1976.*

***TERRAIN ANALYSIS FOR SETTLEMENT SUITABILITY: ELECTORAL AREAS A, B AND C, REGIONAL DISTRICT OF NORTH OKANAGAN,** *Working Report by R.C. Kowall, 1979.*

TERRAIN ANALYSIS FOR SETTLEMENT SUITABILITY - REGIONAL DISTRICT OF NORTH OKANAGAN *by A. Pattison, 1978.*

* **TERRAIN AND SOIL INTERPRETATIONS FOR PROPOSED USE AREAS IN KALAMALKA LAKE PROVINCIAL PARK** *by V. Hignett, 1977.*

WATER QUALITY IN THE SHUSWAP RIVER BETWEEN MABEL AND MARA LAKES, 1977 *by R. Nordin, 1978.*

*Reference copy only.

Reports
REGION 8

TOPOGRAPHIC MAPS, AIR PHOTOS AND AGRICULTURAL LAND RESERVE PLANS can be obtained from:
Map and Air Photo Sales,
Ministry of Environment,
Parliament Buildings,
Victoria, B.C., Canada, V8V 1X4.
Phone: 387-3174

MINERAL LAND USE MAPS can be obtained from:
Ministry of Mines and Petroleum Resources,
Parliament Buildings,
Victoria, B.C., Canada, V8V 1X4.
Phone: 387-5975

FOREST COVER MAPS can be obtained from:
Forestry Inventory Division, Ministry of Forests,
Parliament Buildings,
Victoria, B.C., Canada, V8V 1X4.
Phone: 387-5181

MARINE CHARTS can be obtained from:
Chart Sales and Distribution,
Institute of Ocean Sciences Patricia Bay,
9860 West Saanich Road,
Victoria, B.C., Canada, V8L 3S1.
Phone: 656-8358

GEOLOGICAL MAPS AND REPORTS can be obtained from:
The Geological Survey of Canada,
100 West Pender Street,
Vancouver, B.C., Canada, V8B 1R6.
Phone: 666-1271

SOIL MAPS FOR SOME IRRIGATION DISTRICTS
Can be obtained from:
Ministry of Agriculture,
Parliament Buildings,
Victoria, B.C. Canada, V8V 1X4.
Phone: 387-5121

Useful Addresses

AQUATIC PLANT MANAGEMENT PROGRAM

A significant fraction of the Assessment and Planning Division staff originated in the former Environmental Studies Division of the Water Investigations Branch (now Inventory and Engineering Branch, Environmental Services Division). These transfered staff were reassigned to all Branches in the Assessment and Planning Division, and some remain in the Inventory and Engineering Branch. A series of reports has been prepared for the Aquatic Plant Management Program under the old organizational structure. Staff of the Aquatic Studies Branch continue to be engaged in preparation of reports for this series.

The entire series of reports is listed in this appendix, available from:

Aquatic Plant Management Program,
Inventory and Engineering Branch,
Engineering Services Division,
Ministry of Environment,
Parliament Buildings,
Victoria, B.C. V8V 1X4

Appendix

1972

Hawthorn, R.S., and W.A. McCormick. 1972. **Studies on Aquatic Macrophytes. Part I. A literature review of aquatic macrophytes with particular reference to those present in Windermere Lake, British Columbia. 1971-1972.** 57 pp. W.I.B. Report No. 1930.

this publication provides a good summary of 1971-1972 literature on aquatic plant ecology. It contains a small section on weed control methods reviewed in more detail in subsequent reports. Available on loan.

Hawthorn, R.S. 1972. **Studies on Aquatic Macrophytes. Part III. Aquatic macrophytes in Kalamalka Lake, British Columbia. 1972.** 17 pp. W.I.B. Report No. 1967.

this report summarizes the observations of aquatic plants in Kalamalka Lake. It refers only to small populations in Kalamalka Lake in 1972, and hence has little current application. Available on loan.

1973

Baillie, B.R., D.L. Bissell and N.M.F. Kirk. 1973. **Crayfish as a biological control measure for aquatic macrophytes. Progress Report.** 17 pp. W.I.B. Report No. 2049.

this report includes a short literature review on crayfish as potential weed control agents, laboratory observations on feeding, hatching and behaviour of native crayfish collected near Victoria, B.C. and proposals for field trials. Information Bulletin Volume VI (in preparation) gives an updated summary of the subject. Available on loan.

Hawthorn, R.S. 1973. **Studies on Aquatic Macrophytes. Part II. Aquatic plants of Windermere Lake. 1971-1972.** 74 pp. W.I.B. Report No. 2074.

this report documents the detailed field studies and observations of aquatic plants in Lake Windermere in relation to physical and chemical parameters in 1971 and 1972. No evidence was obtained to suggest significant changes in weed distribution between 1951-1971 nor relations between any eutrophication and weed infestations. Eurasian water milfoil was not the nuisance species. Available on loan.

1974

Newroth, P.R. 1974. **Studies on Aquatic Macrophytes. Part IV. A review of the ecology and control of some aquatic macrophytes.** 64 pp. W.I.B. Report No. 2169.

this report provides a good background on aspects of the ecology and control of aquatic plants and on various herbicides, including 2,4-D. Available on loan and limited copies available for distribution.

Newroth, P.R. 1974. **Studies on Aquatic Macrophytes. Part V. Aspects of aquatic weed control by mechanical harvester. 1972-1973.** 54 pp. W.I.B. Report No. 2170.

this report combines a literature review of mechanical harvesting with observations on the experimental trials with aquatic weed harvesters in Okanagan Lake in 1972-1973. Information Bulletin Volume IV reviews more recent information. Available on loan.

Newroth, P.R. 1974. **A discussion on some aspects of aquatic weed growth in Okanagan Lake, 1970-1974.** 8 pp. W.I.B. Report No. 2182.

this paper provides a short summary of investigations of nuisance aquatic weeds, with emphasis on Eurasian water milfoil, in the Okanagan Basin during 1971 to 1974. Available on loan and limited copies available for distribution.

1975

Bryan, A., K. Marsden and S. Hanna. 1975. **A summary of observations on aquatic weed control methods.** 23 pp. W.I.B. Report No. 2351.

this report summarizes results, advantages and disadvantages of several mechanical and chemical methods for control of Eurasian water milfoil tested by the Water Investigations Branch. These methods are described in more detail in subsequent reports. Available on loan.

Kangasniemi, B. 1975. **Lake sediments and rooted macrophytes with particular reference to *Myriophyllum spicatum* in Okanagan Lake.** 19 pp. W.I.B. Report No. 2350.

this report discusses the relationships between lake sediment and nutrition of aquatic plants and the methods of measuring the nutrients in lake sediments. Recommendations are made for additional research covered in a subsequent report (Kangasniemi 1978) on the subject. Available on loan and limited copies available for distribution.

Newroth, P.R. 1975. **Management of nuisance aquatic plants.** 15 + 12 pp. W.I.B. Report No. 2337.

this nuisance aquatic weed problem in the Okanagan Valley is discussed and short and long term technologies are recommended on the basis of information available in 1975. Available on loan.

Newroth, P.R. 1975. **Aquatic plant management, Okanagan Basin, British Columbia.** 24 + 5 pp. W.I.B. Report No. 2371.

this publication was prepared for presentation at the 29th Annual Meeting of the Canada Weed Control Committee (Western Section), Dec. 2-4, 1975. It outlines the spread of Eurasian water milfoil, its biological characteristics, and management options in the Okanagan Basin. Available on loan and limited copies available for distribution.

1976

Buchanan, R.J. 1976. **Briefing paper on Eurasian water milfoil *(Myriophyllum spicatum L.)*.** 16 pp. W.I.B. Report No. 2463.

this report provides important background information on Eurasian water milfoil and its potential economic and ecological impact on the Okanagan Valley mainstem lakes. A good summary is provided on advantages and disadvantages of various weed control technologies. Available on loan and limited copies available for distribution.

Newroth, P.R. 1976. **An outline of aquatic plant management options considered in British Columbia.** 6 pp. W.I.B. Report No. 2462.

this paper outlines the various control technologies used in the Okanagan Valley and compares cost, advantages and disadvantages. It has been largely replaced by Information Bulletin Volume IV.

Nijman, R.A. 1976. **Studies on Aquatic Macrophytes. Part VII. Aquatic plant documentation, Okanagan Basin, 1975.** 31 pp. + 9 maps. W.I.B. Report No. 2424.

this report reviews field studies on the distribution of Eurasian water milfoil in the Okanagan Valley mainstem lakes in 1975. The information is summarized in a subsequent report which became the baseline for quantitative evaluations of the expansion of Eurasian water milfoil. It will be replaced by Hepburn (1978). Available on loan.

1977

Bryan, A. et al. 1977. **Studies on Aquatic Macrophytes. Part IX. Experimental herbicide treatment for aquatic weed control, Kelowna Boat Basin, Okanagan Lake, 1975.** 55 pp. W.I.B. Report No. 2627.
this report describes the results of diquat and paraquat in field trials in Okanagan Lake. Available on loan and limited copies available for distribution.

Ceska, O. 1977. **Studies on Aquatic Macrophytes. Part XVII. Phytochemical differentiation on *Myriophyllum taxa* collected in British Columbia.** 33 pp. W.I.B. Report No. 2614.
this report outlines a new technique for identification of different *Myriophyllum* species. Limited copies are available for distribution.

Lim, P.G. and K.R. Lozoway. 1977. **Studies on Aquatic Macrophytes. Part X. A field experiment with granular 2,4-D for control of Eurasian water milfoil, 1976.** 105 pp. W.I.B. Report No. 2613.
this publication describes the results of the first field trials with 2,4-D in 1976. It will be replaced, in part, by Lozoway (1978). Available on loan and limited copies available for distribution.

Newroth, P.R. 1977. **Proposals for the 1978 Aquatic Plant Management Program.** 19 pp. W.I.B. Report No. 2628.
this report reviews the 1977 Aquatic Plant Management Program in the Okanagan Basin Lakes and outlines management options together with the priorities for implementation of weed removal activities. This report is specific to the 1978 Okanagan Basin program and hence of limited general use. Available on loan and limited copies available for distribution.

1978

Bryan, A.D. (ed.) 1978. **Studies on Aquatic Macrophytes. Part VIII. Experimental hydraulic dredging for aquatic weed control in Vernon Arm, Okanagan Lake, 1975.** 158 pp. W.I.B. Report No. 2727.
this report examines the effectiveness and environmental consequences of an experimental "Mud Cat" hydraulic dredging project in Okanagan and Kalamalka lakes in 1975. Included is a lengthy discussion of the significance of water quality parameter measurements. Available on loan and limited copies available for distribution.

Lim, P.G. 1978. **Studies on Aquatic Macrophytes. Part XVI. A laboratory experiment with granular 2,4-D for control of Eurasian water milfoil, 1976-1977.** 25 pp. W.I.B. Report No. 2726.
the efficacy of granular 2,4-D on Eurasian water milfoil is discussed, based on a simple experiment using two plexiglas cylinders to contain *M. spicatum* plants and sediments taken from Okanagan Lake. Available on loan and limited copies available for distribution.

1979

Aiken, S.G., P.R. Newroth and I. Wile. 1979. **The Biology of Canadian Weeds. 34. *Myriophyllum spicatum L.*,** *Can. J. Plant Sci.* 59:201-215.
This publication presents a review of recent research on the biology of *M. spicatum* in Canada. The plant's history, geographic distribution, economic importance, and ecology are discussed. Distinguishing characteristics of the species and a list of control technologies are offered. Available on loan.

Anon. 1979 **Studies on Aquatic Macrophytes. Part XVIII. Data report on Eurasian water milfoil treatments with 2,4-D in the Okanagan Valley, 1977-1978.** W.I.B. Report No. 2803.
this report presents monitoring data collected in conjuction with nine full-scale 2,4-D trials conducted in 1977 and 1978 in Okanagan Valley lakes, under a variety of conditions. The data presented describes 2,4-D residue persistence and drift within the aquatic environment (water, biological tissues and hydrosoils) and effects on water quality. Limited copies are available for distribution.

Armour, G., D. Brown and K. Marsden.1979. **Studies on Aquatic Macrophytes. Part XV. Bottom barriers for aquatic weed control.** W.I.B. Report No. 2801.
this report evaluates the benefits of bottom barriers (polyethylene and hypalon) for the control of Eurasian water milfoil, based upon trials conducted by the Water Investigations Branch and the Okanagan Basin Water Board between summer of 1975 and the fall of 1976. Limited copies are available for distribution.

Hepburn, P. 1979. **Studies on Aquatic Macrophytes. Part XX. Aquatic plant documentation, Okanagan Basin, 1977.** 34 pp. W.I.B. Report No. 2775.
this report gives results on 1978 air photography interpretation and field surveys that were initiated in order to document the location, area, density and distribution of Eurasian water milfoil and other aquatic macrophytes in the Okanagan Basin lakes. Available on loan and limited copies available for distribution.

Hepburn, P. 1979. **Studies on Aquatic Macrophytes. Part XXVI. Aquatic plant documentation, Okanagan Basin, 1978.** W.I.B. Report No. 2805.
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this report briefly reviews the role of the Ministry of Environment in relation to the Eurasian water milfoil problem in B.C. and defines 10 A.P.M.P. objectives for 1979. The objectives are based upon the experiences and efforts made between 1972 and 1978 and include consideration of Ministry of Environment policy for the spread of water milfoil to areas outside of the Okanagan Basin. Available on loan and limited copies available for distribution.

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1980

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results of monitoring residues in water and hydrosoils following 2,4-D treatments in Wood and Kalamalka Lakes are presented with descriptions of methods and sampling areas. Available on loan.

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this publication outlines the objectives for 1980 of the Ministry of Environment in dealing with the problem of Eurasian water milfoil. It includes Information Bulletin Volume IX; Summary of Aquatic Plant Management Program Results for 1979, and the Seventh Interim Report of the Advisory Committee on the Control of Eurasian Water Milfoil in the Okanagan Lake System of British Columbia. Available on loan and limited copies are available for distribution.

Anon. **Studies on Aquatic Macrophytes. Part XIX.**

Volume 1 — Herbicide residue persistence in the water column and water quality implications. *In preparation.*
2,4-D residue longevity asnd water quality are discussed in these results of 1977-1978 field trials in Okanagan Valley mainstem lakes with granular 2,4-D, with particular attention given to residue drift in the water column.

Volume 2 — Herbicide residue concentrations and persistence in biological tissues and hydrosoils. *In preparation.*
this report looks at 2,4-D residue persistence in hydrosoils, fresh water clam tissue and plant tissue samples collected from 2,4-D field trials conducted in Okanagan Valley mainstem lakes in 1977 and 1978.

Volume 3 — Herbicide application effects and efficacy on target plant species. *In preparation.*
this report deals with density reduction of target and non-target plant species diversity after 2,4-D application at 1977 and 1978 field trials conducted in Okanagan Valley mainstem lakes.

Armour, G.D., M.D. Ferguson, R.S. Hanna, I.P. Walters, and M.D. Maxnuk. **Studies on Aquatic Macrophytes. Part XIV. Summary of Mechanical Aquatic Plant Management, Okanagan Valley, 1978.** *In preparation.*
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this report reviews the location, construction, limitations, and effectiveness of weed fragment barriers in the Okanagan Basin during the 1976-1979 period.

ADVISORY COMMITTEE REPORTS

First Interim Report of the Advisory Committee on the Control of Eurasian Water Milfoil in the Okanagan Lake System of British Columbia. January, 1977. 19 pp.

this report includes an independent review of the Eurasian water milfoil problem and possible control techniques in the Okanagan Basin lakes. Emphasis is given to mechanical procedures which might be adopted.

Second Interim Report of the Advisory Committee on the Control of Eurasian Water Milfoil in the Okanagan Lake System of British Columbia. March, 1977. 21 pp.

this report gives particular emphasis to chemical and biological weed control and proposes an integrated program which might be applied in the Okanagan Basin lakes.

Third Interim Report of the Advisory Committee on the Control of Eurasian Water Milfoil in the Okanagan Lake System of British Columbia. May, 1977. 4 pp.

this report reviews the safety precautions to be taken in the use of the herbicide 2,4-D.

Fourth Interim Report of the Advisory Committee on the Control of Eurasian Water Milfoil in the Okanagan Lake System of British Columbia. March, 1978. 19 pp.

this report considers data gathered during the 1977 treatment season and proposals for the 1978 Aquatic Plant Management Program in the Okanagan lakes.

Fifth Interim Report of the Advisory Committee on the Control of Eurasian Water Milfoil in the Okanagan Lake System of British Columbia. April, 1978. 12 pp.

further investigation of use of constituents of Portland cement is recommended for Eurasian water milfoil control.

Sixth Interim Report of the Advisory Committee on the Control of Eurasian Water Milfoil in the Okanagan Lake System of British Columbia. February, 1979. 8 pp.

this report made recommendations on policy, following a review of the status of Eurasian water milfoil and control efforts at the end of 1978. This Interim Report was incorporated into W.I.B. Report No. 2760, which outlined A.P.M.P. proposals for 1979.

Seventh Interim Report of the Advisory Committee on the Control of Eurasian Water Milfoil in the Okanagan Lake System of British Columbia. March, 1980. 17 pp.

this report reviews the control and management of Eurasian water milfoil in British Columbia during 1978 and 1979 and offers recommendations for 1980 and subsequent years. This Interim Report was incorporated into I. & E. Report No. 2837 which outlines A.P.M.P. proposals for 1980.

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